

# A1-F18AC-740-220

1 February 2001

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## TECHNICAL MANUAL

### ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING

## WEAPON CONTROL SYSTEMS

NAVY MODEL  
F/A-18A AND F/A-18B  
161353 AND UP

N68936-01-D-0007

**This volume is one of four volumes and is incomplete without A1-F18AC-740-200, A1-F18AC-740-210 and A1-F18AC-740-230.**

**This volume contains WP028 00 through WP041 00.**

**This manual supersedes A1-F18AC-740-220 dated 15 Decmeber 1989 through Change 4 dated 1 November 1993.**

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**ORGANIZATIONAL MAINTENANCE**

**TESTING AND TROUBLESHOOTING**

**WEAPON CONTROL SYSTEM**

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1. The TPDRs listed below have been incorporated in this issue.

<b>IDENTIFICATION NUMBER/ QA SEQUENCE NUMBER</b>	<b>LOCATION</b>
None	



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

TESTING - AIRCRAFT GUIDED MISSILE LAUNCHER LAU-115C/A AND LAU-116( ), AIM-7  
MOTOR FIRE AND BATTERY ACTIVATE TEST

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Software Configuration .....	A1-F18AC-SCM-000
Weapon Control Systems .....	A1-F18AC-740-200
Initiated Built-In Test .....	WP009 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

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## Record of Applicable Technical Directives

None

Table 1. AIM-7 Motor Fire and Battery Activate Test

Procedure	Normal Indication	Remedy for Abnormal Indication
System Required Components		
All system components installed		

Table 1. AIM-7 Motor Fire and Battery Activate Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication										
<p style="text-align: center;"><b>Related Systems Required</b></p> <p>Avionics Cooling System Electrical System Maintenance Status Display and Recording System Mission Computer System Multipurpose Display Group</p> <p style="text-align: center;"><b>Support Equipment Required</b></p> <table><tr><th>Part Number or Type Designation</th><th>Nomenclature</th></tr><tr><td>AN/AWM-54</td><td>Aircraft Firing Circuit Test Set</td></tr><tr><td>74D750020-1001</td><td>Test - Breech Adapter</td></tr><tr><td>74D750021-1001</td><td>Test - Motor Fire Adapter</td></tr><tr><td>74D750022- 1001</td><td>Test - Signal Adapter</td></tr></table> <p style="text-align: center;"><b>Materials Required</b></p> <p style="text-align: center;">None</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Component locations are shown in WP007 00. Test displays are shown on figure 1 and test equipment hookup is shown on figure 2.</p> <p>For the remainder of this test, test set refers to TS-3021/AWM-54. Test set is part of aircraft firing circuit test set AN/AWM-54.</p> <p>Items listed below are used in this test and are part of 74D750022-1001, Test Signal Adapter:</p> <p>J52S0176-8 - Electrical Connector Cover (5M1795-001) 115-2057-1 - Electrical Connector (ST5M1388-002) 74D751045-2001 - Housing Assembly 74D751045-2007 - Cable Assembly 115-5079 or QX32P-SW809 - Electrical Connector, Notched (917AS8809)</p>			Part Number or Type Designation	Nomenclature	AN/AWM-54	Aircraft Firing Circuit Test Set	74D750020-1001	Test - Breech Adapter	74D750021-1001	Test - Motor Fire Adapter	74D750022- 1001	Test - Signal Adapter
Part Number or Type Designation	Nomenclature											
AN/AWM-54	Aircraft Firing Circuit Test Set											
74D750020-1001	Test - Breech Adapter											
74D750021-1001	Test - Motor Fire Adapter											
74D750022- 1001	Test - Signal Adapter											
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).												

Table 1. AIM-7 Motor Fire and Battery Activate Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p style="text-align: center;">To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.</p> <div style="display: flex;"> <div style="flex: 1; padding-right: 10px;"> <p>a. Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>b. Make sure all weapons are removed from aircraft.</p> <p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER) if installed on aircraft.</p> <p>g. Make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>h. Make sure gun hold-back mechanism handle is set to cleared; gun hold-back handle indicator extended.</p> <p>i. Make sure AN/ALE-39 dispensers are removed from the aircraft.</p> </div> <div style="flex: 1; border-left: 1px solid black; border-right: 1px solid black; padding: 0 10px;"></div> <div style="flex: 1; border-left: 1px solid black; padding: 0 10px;"></div> </div>		

Table 1. AIM-7 Motor Fire and Battery Activate Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove forward and aft chamber assemblies from breeches on Aircraft Guided Missile Launcher LAU-116( ) to be tested.</p> <p>b. Remove housing assembly and cable assembly from signal test adapter (fig 2).</p> <p>c. Connect P2 of cable assembly to J3 on housing assembly.</p> <p>d. Connect P1 of cable assy to aircraft UTILITY PWR RECP 1J-G089 on nose wheelwell maintenance panel.</p> <p>e. Remove umbilical cover from launcher umbilical connector.</p> <p>f. Remove cover and electrical connector from J2 of housing assembly and set DC SIGNAL RELAYS switch to ON.</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Notched electrical connector must be used on Aircraft Guided Missile Launcher LAU-115C/A, either electrical connector can be used on Aircraft Guided Missile Launcher LAU-116( ).</p>		
<p>g. Remove electrical connector from cover and install electrical connector on Aircraft Guided Missile Launcher LAU-115C/A or LAU-116( ), umbilical connector.</p> <p>h. Connect J2 of housing assembly to electrical connector.</p> <p>i. Remove test set and W1 cable from aircraft firing circuit test set case.</p>		



Table 1. AIM-7 Motor Fire and Battery Activate Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>When a failed condition is indicated during test set self test, refer to NAVAIR 16-30AWM54-1 for troubleshooting. NAVAIR 16-30AWM54-1 is contained in aircraft firing circuit test set AN/AWM-54.</p>		
<p>j. Connect W1P1 of W1 cable to test set, W1P2 of W1 cable to J1 of housing assembly, and do test set self test.</p> <p>3. PRELIMINARY.</p> <p>a. Make sure all Aircraft Guided Missile Launcher LAU-116( ), hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p> <p>b. Make sure Aircraft Guided Missile Launcher LAU-115C/A, SAFETY LOCK DRIVE is at LOCK.</p> <p>c. Open door 14R (A1-F18AC-LMM-010).</p> <p>d. On Armament Computer CP-1342/AYQ-9(V), set L OUTBD and R OUTBD, ARMAMENT switches to 84 and set remaining FUZING and ARMAMENT switches to zero.</p> <p>e. On Digital Display Indicator ID-2150/ASM-612 in nose wheel-well, look at WPN SYS FAIL indicator.</p>	<p>On Aircraft Guided Missile Launcher LAU-116( ), SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED.</p> <p>On Aircraft Guided Missile Launcher LAU-115C/A, SAFETY INDICATOR shows GREEN-LOCKED.</p> <p>WPN SYS FAIL indicator is black (not latched).</p>	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If knob will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p> <p>1. Rotate SAFETY LOCK DRIVE to LOCK.</p> <p>2. If SAFETY LOCK DRIVE will not rotate, replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).</p> <p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p>

Table 1. AIM-7 Motor Fire and Battery Activate Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>f. Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>g. Apply electrical power (A1-F18AC-LMM-000).</p> <p>h. On housing assembly, set DC SIGNAL RELAYS switch to RESET, then back to ON.</p> <p>i. Connect ground intercommunications (A1-F18AC-LMM-000).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>After completion of Initiated Built-In Test (BIT), leave 1, 2 and 3 switches at ON and continue with this test.</p>		
<p>j. Do Initiated Built-In Test (WP009 00).</p> <p>4. BATTERY ACTIVATE TEST</p> <p>a On RDDI, press MENU pushbutton switch.</p>	Menu display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
<p style="text-align: center;"><b>NOTE</b></p> <p>Missile symbol only displayed in wingform for station under test.</p>		
<p>b. On LDDI, press STORES pushbutton switch.</p>	<p>1. Stores display appears on LDDI.</p> <p>2. X displayed through 7F, 7M or 7H on stores display for station under test.</p>	<p>Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Do table 5 (WP029 00).</p>

Table 1. AIM-7 Motor Fire and Battery Activate Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
c. On SNSR pod control box panel assembly, set RADAR switch to OPR. Allow 3 minute warmup.	X removed from 7F, 7M or 7H on stores display 10 seconds after radar warmup.	Do table 4 (WP029 00).
d. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
e. On master arm control panel assembly, set MASTER switch to ARM.	SAFE displayed on LDDI.	Do table 2 (WP010 17).
f. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged.	Do table 1 (WP012 00).
	2. ARM is displayed on LDDI.	Do table 1 (WP010 17).
g. On aircraft controller grip assembly, move A/A weapon select switch to SP (fwd).	1. Radar display on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
	2. SEL displayed below 7F, 7M or 7H on stores display on LDDI.	Do table 1, (WP010 31).
	3. On Aircraft Guided Missile Launcher LAU-116( ), SAFETY RELEASE knob moves counter-clockwise and INDICATOR shows YEL/BLK-HOOKS UNLOCKED.	Do table 1 (WP027 00).
	4. On Aircraft Guided Missile Launcher LAU-115C/A, SAFETY LOCK DRIVE moves to UNLOCK and SAFETY INDICATOR shows YEL/BLK-UNSAFE.	Do table 6 (WP029 00).
	5. A/A indicator light comes on.	On F/A-18A, do table 1, (WP010 33). On F/A-18B, do table 2, (WP010 33).
h. On test set, set FCTN switch to F/C.		
i. On test set, press and hold TEST switch.		

Table 1. AIM-7 Motor Fire and Battery Activate Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
j. On aircraft controller grip assembly, press and release gun/A/A missile trigger switch to second detent.	1. GO light on test set comes on.	1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black, if not, read and record maintenance codes. If maintenance code 072, 074, 076, 078, or 084 is displayed, do table 1 (WP010 00).
	2. SEL and 7F or 7M removed from stores display on LDDI.	2. Do table 1 or 2 (WP029 00).
k. On test set, release TEST switch.	Go light on test set goes off.	Do table 5 (WP029 00).
l. On test set, set FCTN switch to S/V.		Replace test set.
m. On test set, press and release TEST switch.	GO light on test set comes on and remains on until TEST switch is released.	
n. On master arm control panel assembly, press and release A/A switch.	A/A indicator light goes off.	Do table 3 (WP029 00).
o. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.		On F/A-18A, do table 1, (WP010 32).
p. On GND PWR control panel assembly, set 3 switch to AUTO.		On F/A-18B, do table 2, (WP010 32).
q. On housing assembly, set DC SIGNAL RELAYS switch to RESET, then back to ON.		
<p style="text-align: center;"><b>NOTE</b></p> <p>After 3 switch is set to B ON, allow Stores Management System 3 minutes to complete initial BIT.</p>		

Table 1. AIM-7 Motor Fire and Battery Activate Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>r. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p>	<p>1. On Aircraft Guided Missile Launcher LAU-116( ), SAFETY RELEASE knob moves clockwise and INDICATOR shows GREEN-HOOKS LOCKED.</p>	Do table 2 (WP027 00).
	<p>2. On Aircraft Guided Missile Launcher LAU-115C/A, SAFETY LOCK DRIVE moves to LOCK and SAFETY INDICATOR shows GREEN-LOCKED.</p>	Do table 6 (WP029 00).
	<p>3. X displayed through 7F, 7M or 7H on stores display.</p>	Do table 5 (WP029 00).
<p>s. On LDDI press SP TEST pushbutton switch.</p>	<p>X removed from 7F, 7M or 7H on stores display</p>	Do table 4 (WP029 00).
<p>t. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p>	<p>LKD displayed below 7F, 7M or 7H on stores on LDDI.</p>	Do table 5 (WP029 00).
<p>5. MOTOR FIRE TEST.</p>		
<p>a. Disconnect test set, W1P2 of W1 cable from housing assembly.</p>		
<p>b. Connect W1P2 of W1 cable to J1 of motor fire test adapter and do self test.</p>		
<p>c. Connect P1 of motor fire test adapter to Aircraft Guided Missile Launcher LAU-115C/A or LAU-116( ) motor fire connector.</p>		
<p>d. Repeat steps 4g through 4t.</p>	Same as steps 4g through 4t.	Same as steps 4g through 4t.
<p>6. MISSILE EJECTION TEST.</p>		
<p>a. Disconnect test set, W1P2 of W1 cable from motor fire test adapter.</p>		
<p>b. Remove motor fire test adapter from launcher motor fire connector.</p>		

**Table 1. AIM-7 Motor Fire and Battery Activate Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. On Aircraft Guided Missile Launcher LAU-116(), continue with next step, on Aircraft Guided Missile Launcher LAU-115C/A, do step 6j.</p> <p>d. Connect W1P2 of W1 cable to breech test adapter and do self test.</p> <p>e. Install breech test adapter in forward breech of Aircraft Guided Missile Launcher LAU-116().</p> <p>f. Repeat steps 4g through 4t and do next step</p> <p>g. Remove breech test adapter from fwd breech and install in aft breech of Aircraft Guided Missile Launcher LAU-116().</p> <p>h. Repeat steps 4g through 4o and do next step.</p> <p>i. Remove breech test adapter from breech. Disconnect test set W1P2 of W1 cable from breech test adapter.</p> <p>j. If all stations have been tested, do SHUTDOWN, if not tested continue with step k.</p> <p>k. Remove umbilical cover from launcher umbilical connector of remaining Aircraft Guided Missile Launcher LAU-115C/A or LAU-116() and install electrical connector on launcher umbilical connector.</p> <p>l. Connect J2 of housing assembly to electrical connector.</p>	<p>Same as steps 4g through 4t.</p> <p>Same as steps 4g through 4o.</p>	<p>Same as steps 4g through 4t.</p> <p>Same as steps 4g through 4o.</p>

**Table 1. AIM-7 Motor Fire and Battery Activate Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">After 3 switch is set to B ON, allow Stores Management System 3 minutes to complete initial BIT.</p>		
m. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.	X displayed through 7F, 7M or 7H on stores display.	Do table 5 (WP029 00).
n. On LDDI press SP TEST pushbutton switch.	X removed from 7F, 7M, or 7H on stores display.	Do table 4 (WP029 00).
p. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
q. Repeat steps 4g through 4t, 5a through 5d and 6a through 6c, on remaining station.		
7. SHUTDOWN.		
a. On master arm control panel assembly, set MASTER switch to SAFE.	1. SAFE displayed on RDDI.	Do table 2 (WP010 17).
	2. ARMAMENT OVERRIDE switch disengages.	Do table 3 (WP010 17).
b. On LDDI and RDDI, set power switch to OFF.		
c. On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.		
d. Remove electrical power (A1-F18AC-LMM-000).		
e. Disconnect proximity switch control (A1-F18AC- LMM-000).		
f. Disconnect ground intercommunication (A1-F18AC-LMM-000).		

**Table 1. AIM-7 Motor Fire and Battery Activate Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>g. Close door 14R (A1-F18AC-LMM-010).</p> <p>h. Disconnect housing assembly from electrical connector.</p> <p>i. Remove electrical connector from Aircraft Guided Missile Launcher LAU-115C/A or LAU-116( ), umbilical connector and install umbilical cover.</p> <p>j. Stow electrical connector in cover and connect to J2 of housing assembly.</p> <p>k. Disconnect P1 of cable assembly from aircraft UTILITY PWR RECP 1J-G089 on nose wheelwell maintenance panel.</p> <p>l. Remove breech test adapter from Aircraft Guided Missile Launcher LAU-116( ).</p> <p>m. Disconnect W1 cable from breech test adapter and test set and stow.</p> <p>n. Install chamber assemblies in Aircraft Guided Missile Launcher LAU-116( ).</p>		

**1. ILLUSTRATED PARTS BREAKDOWN.**

2. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.



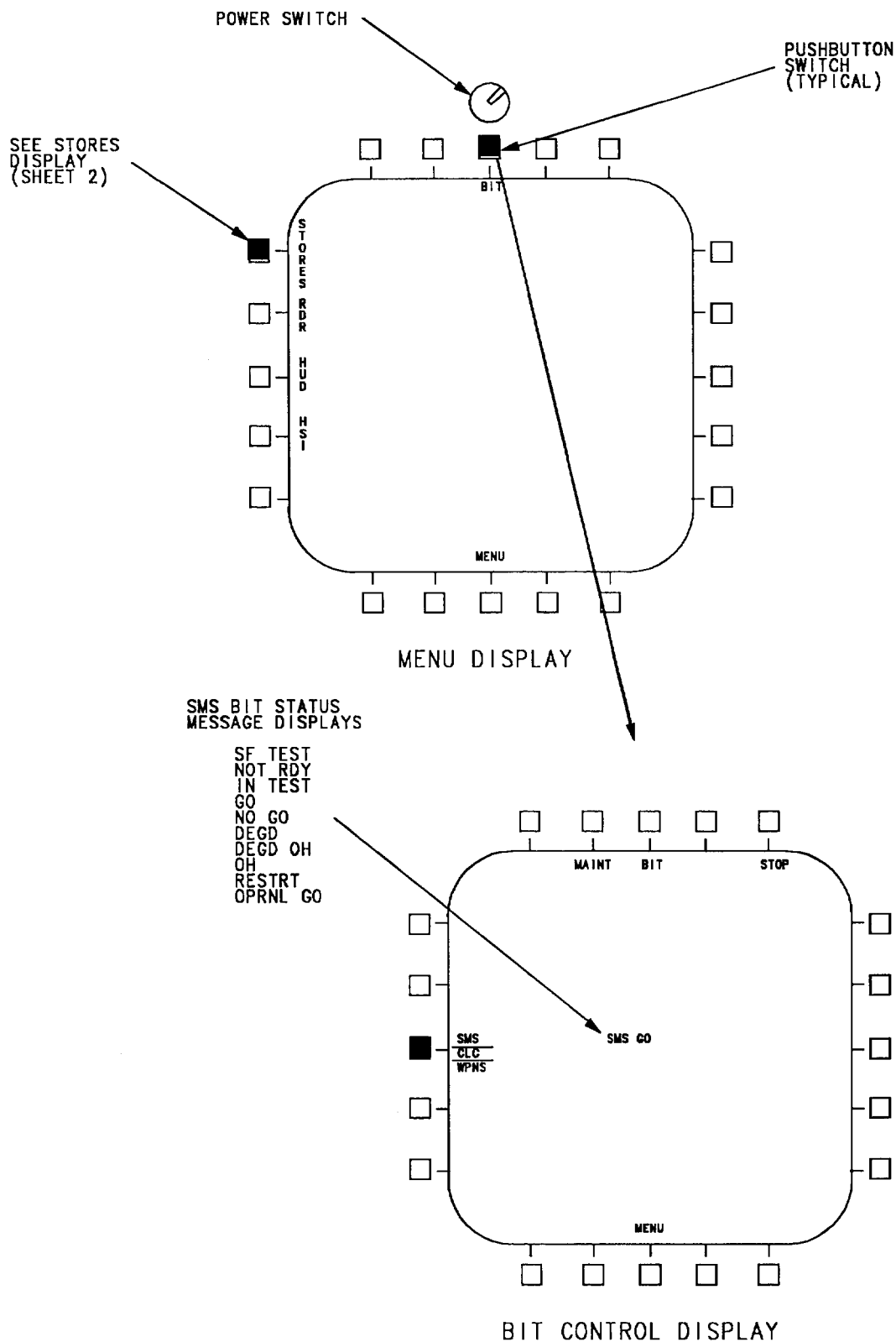


Figure 1. Test Displays (Sheet 1)

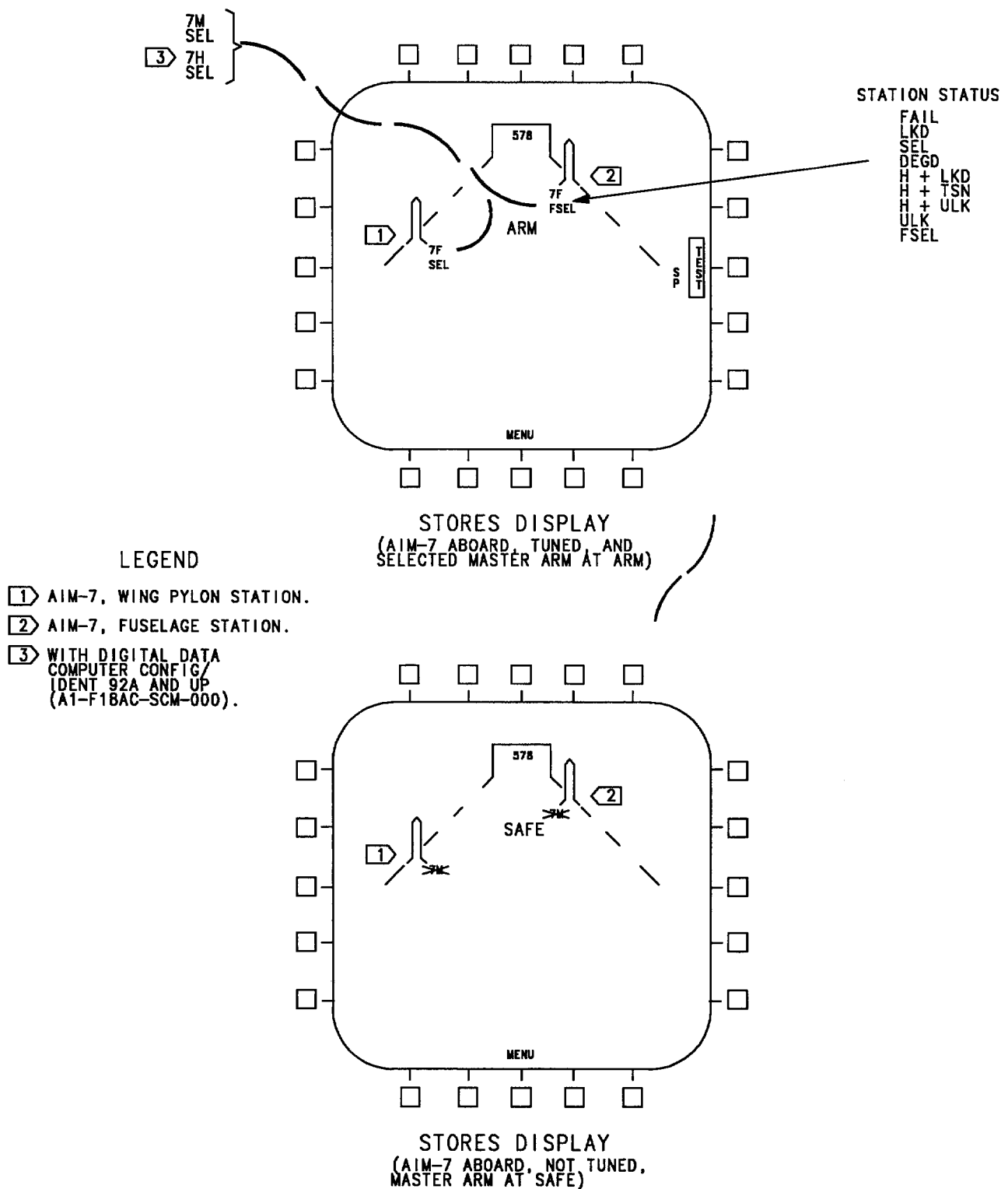


Figure 1. Test Displays (Sheet 2)

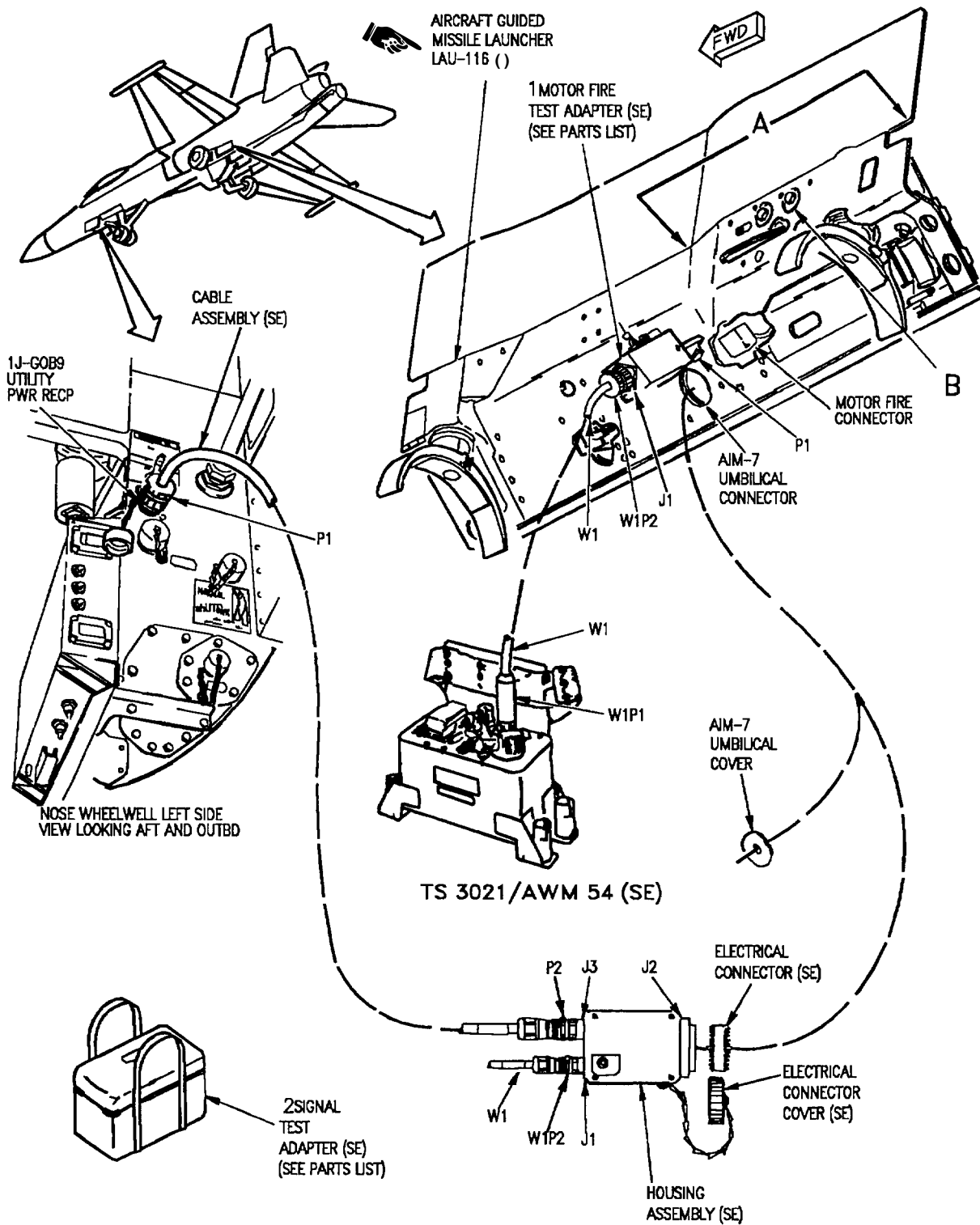


Figure 2. Test Equipment Hookup (Sheet 1)

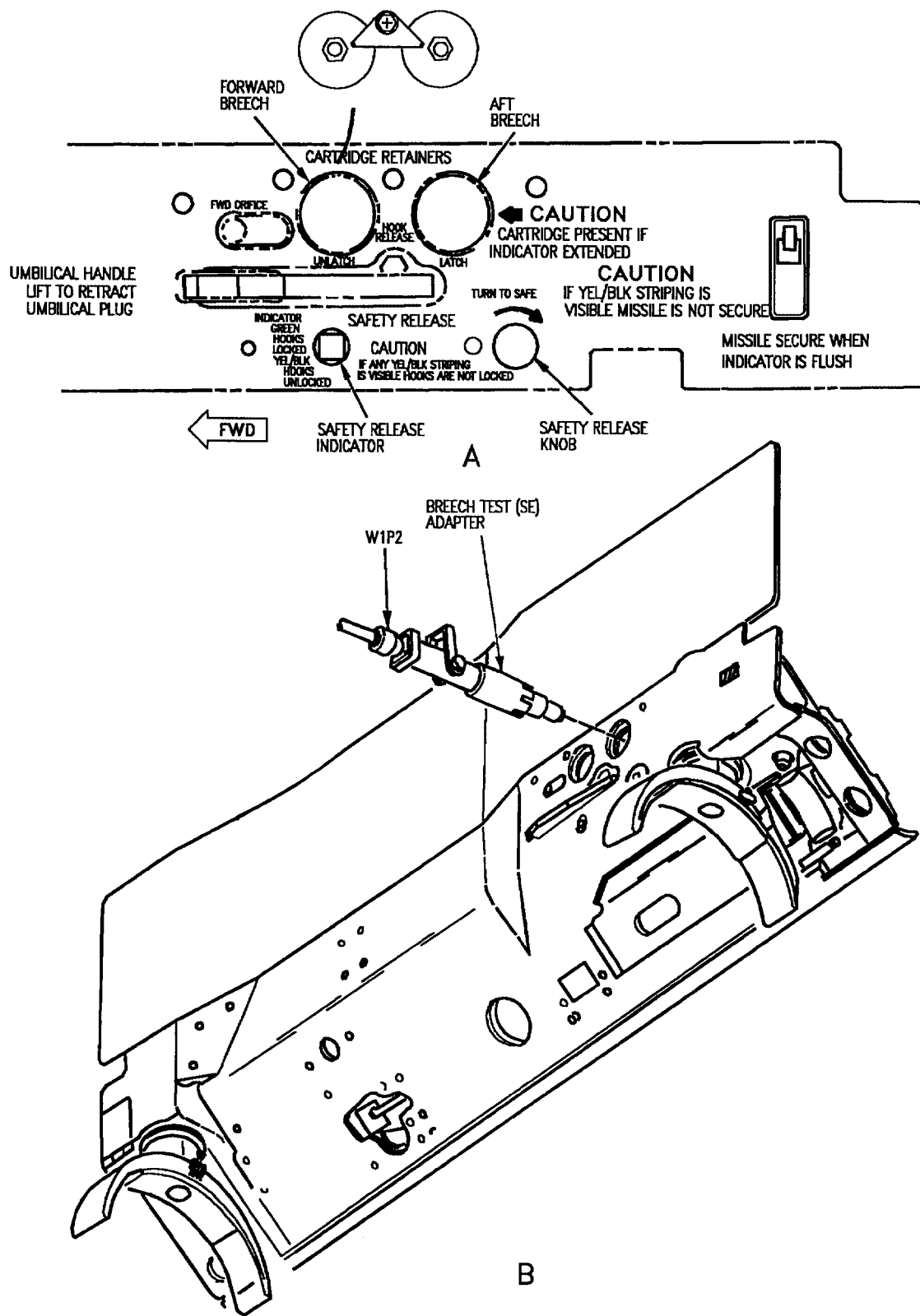


Figure 2. Test Equipment Hookup (Sheet 2)

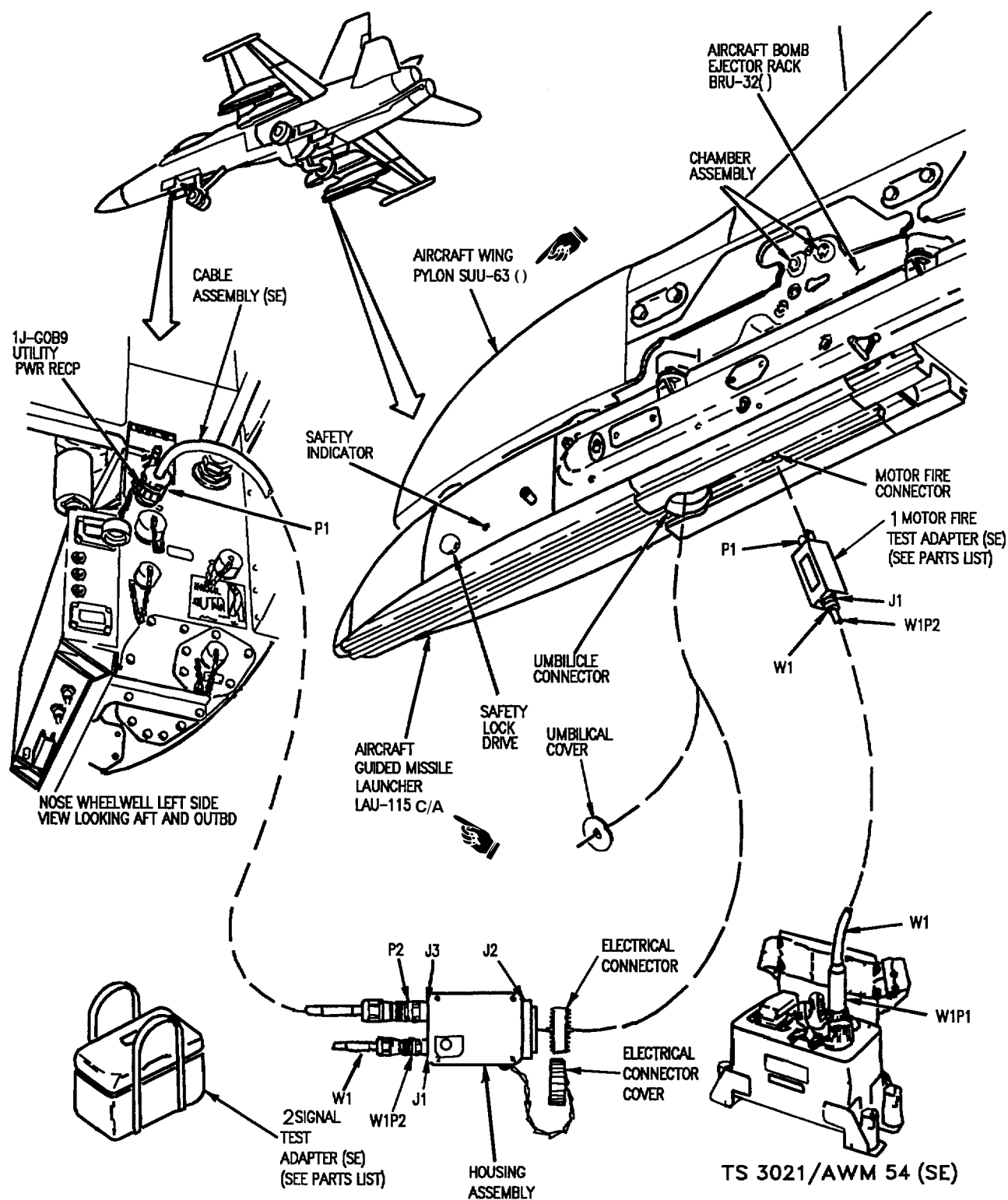


Figure 2. Test Equipment Hookup (Sheet 3)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		TEST EQUIPMENT HOOKUP .....									
1	74D750021-1001	.							1		PAOZZ
		(76301) (SUPPORT EQUIPMENT)									
2	74D750022-1001	.							1		PEOGG
		(SUPPORT EQUIPMENT)									

Figure 2. Test Equipment Hookup (Sheet 4)

**ORGANIZATIONAL MAINTENANCE****TESTING AND TROUBLESHOOTING****TROUBLESHOOTING - AIRCRAFT GUIDED MISSILE LAUNCHER LAU-115/A AND LAU-116/A, AIM-7  
MOTOR FIRE AND BATTERY ACTIVATE TEST****SUSPENSION AND RELEASE MECHANISMS****EFFECTIVITY: F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B****Reference Material**

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010

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**Record of Applicable Technical Directives**

None

**Table 1. GO Light On Test Set Does Not Come On, Recycle And Battery  
Activate**

<b>Support Equipment Required</b>	
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>
77/BN	Multimeter
<b>Materials Required</b>	
None	

**Table 1. GO Light On Test Set Does Not Come On, Recycle And Battery Activate (Continued)**

NOTE		
<p>Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC- 740-500, WP043 00) and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Guided Missile Launcher LAU-115C/A  Aircraft Guided Missile Launcher LAU-116( )  Aircraft Wiring  Aircraft Wing Pylon SUU-63( )  Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)  LAU-115C/A Jumper Cable W56229  Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is this a wing station, Aircraft Guided Missile Launcher LAU-115C/A? .....	b	e
b. Do substeps listed below:		
<p style="text-align: center;"><b>NOTE</b></p> <p>This procedure applies to both left and right fuselage stations. Connectors will be noted as left to identify left fuselage station 4 or right to identify right fuselage station 6.</p>		



**Table 1. GO Light On Test Set Does Not Come On, Recycle And Battery Activate (Continued)**

Procedure	No	Yes
<p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) On 161353 THRU 161944, open doors 45L and 46L or 45R and 46R (A1-F18AC-LMM-010).</p> <p>(3) On 161945 AND UP, open door 45L or 45R (A1-F18AC-LMM-010).</p> <p>(4) Disconnect left 52P-P064B or right 52P-R066B from 61J-Y200B, Aircraft Guided Missile Launcher LAU-116( ).</p> <p>(5) Disconnect left 61P-P014A or right 61P-R016A from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).</p> <p>(6) Does continuity exist from:</p> <p style="padding-left: 40px;">left, 61P-P014A pin 85 to 52P-P064B pin T  61P-P014A pin 37 to 52P-P064B pin U  61P-P014A pin 5 to 52P-P064B pin r  61P-P014A pin 33 to 52P-P064B pin h  or  right, 61P-R016A pin 85 to 52P-R066B pin T  61P-R016A pin 37 to 52P-R066B pin U  61P-R016A pin 5 to 52P-R066B pin r  61P-R016A pin 33 to 52P-R066B pin h? .....</p> <p>c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step j .....</p> <p>d. Malfunction is caused by one of the items listed below:</p> <p style="padding-left: 40px;">(1) Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).</p> <p style="padding-left: 40px;">(2) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p> <p>Do step j .....</p> <p>e. Do substeps listed below:</p>	<p>c</p> <p>-</p> <p>-</p> <p>-</p>	<p>d</p> <p>-</p> <p>-</p> <p>-</p>
<b>NOTE</b>		
This procedure applies to wing stations 2 and 8.		
<p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 502 on wing station pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W093 from 61J-W093 AIR-AIR on pylon stores electrical disconnect panel.</p>		

**Table 1. GO Light On Test Set Does Not Come On, Recycle And Battery Activate (Continued)**

Procedure	No	Yes
<p>(4) Disconnect 61P-W095A from 61J-W095A on Aircraft Guided Missile Launcher LAU-115C/A.</p> <p>(5) Does continuity exist from:</p> <p>61P-W093 pin 40 to 61P-W095A pin v</p> <p>61P-W093 pin 26 to 61P-W095A pin y</p> <p>61P-W093 pin 4 to 61P-W095A pin Z? .....</p>	f	g
<p>f. Replace LAU-115C/A Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step j .....</p>	-	-
<p>g. Do substeps listed below:</p> <p>(1) Open door 504 on wing station pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W012D from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.</p> <p>(3) Does continuity exist from:</p> <p>61J-W093 pin 40 to 61P-W012D pin b</p> <p>61J-W093 pin 26 to 61P-W012D pin t</p> <p>61J-W093 pin 4 to 61P-W012D pin F? .....</p>	h	i
<p>h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step j .....</p>	-	-
<p>i. Malfunction is caused by one of the items listed below:</p> <p>(1) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).</p> <p>(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>Do step j .....</p>	-	-
<p>j. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 52P-P064B or 52P-R066B</p> <p>(2) 61P-P014A or 61P-R016A</p> <p>(3) 61P-W093</p> <p>(4) 61P-W095A</p> <p>(5) 61P-W012D</p> <p>(6) Door 45L or 45R</p>		



**Table 1. GO Light On Test Set Does Not Come On, Recycle And Battery Activate (Continued)**

Procedure	No	Yes
(7) On 161353 THRU 161944, door 46L or 46R		
(8) Door 502 and 504 .....	-	-

**Table 2. GO Light On Test Set Does Not Come On, Breech Or Motor Fire**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
74D750022-1001	Test - Signal Adapter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC- 740-500, WP043 00) and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-115C/A	
Aircraft Guided Missile Launcher LAU-116( )	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	
LAU-115C/A Jumper Cable W56229	
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

**Table 2. GO Light On Test Set Does Not Come On, Breech Or Motor Fire  
(Continued)**

Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Is this a wing station Aircraft Guided Missile Launcher LAU-115C/A? .....	b	i
b. Do substeps listed below:		
<div style="text-align: center;"> <p><b>NOTE</b></p> <p>This procedure applies to both left and right fuselage stations. Connectors will be noted as left to identify left fuselage station 4 or right to identify right fuselage station 6.</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) On 161353 THRU 161944, open doors 45L and 46L or 45R and 46R (A1-F18AC-LMM-010).</li> <li>(3) On 161945 AND UP, open door 45L or 45R (A1-F18AC-LMM-010).</li> <li>(4) Disconnect left 52P-P064A or right 52P-R066A from 61J-Y200A, Aircraft Guided Missile Launcher LAU-116( ).</li> <li>(5) Connect connector and housing assembly to umbilical connector and set DC SIGNAL RELAYS switch ON.</li> </ol> </div>		
<div style="text-align: center;">  <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> </div>		

**Table 2. GO Light On Test Set Does Not Come On, Breech Or Motor Fire  
(Continued)**

Procedure	No	Yes
<p>(6) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(7) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(8) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</p> <p>(9) On MC/HYD ISOL control panel assembly, set MC switch to NORM.</p> <p>(10) On LDDI, set power switch to DAY or NIGHT. Allow 2 minute warmup.</p> <p>(11) On LDDI, press MENU pushbutton switch.</p> <p>(12) On LDDI, press STORES pushbutton switch.</p> <p>(13) On SNSR pod control box panel assembly, set RADAR switch to OPR.</p> <p>(14) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(15) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(16) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(17) On master arm control panel assembly, press and release A/A switch.</p> <p>(18) On aircraft controller grip assembly, move A/A weapon select switch to SP (fwd).</p> <p>(19) Press gun/A/A missile trigger switch to second detent. Does 28vdc exist at left 52P-P064A pins D and G or right 52P-R066A pins D and G? .....</p>	c	f
<p>c. Do substeps listed below:</p> <p>(1) On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.</p> <p>(2) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(3) Disconnect left 61P-P014C or right 61P-R016C from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).</p> <p>(4) Does continuity exist from:</p> <p>left, 61P-P014C pin 8 to 52P-P064A pin D 61P-P014C pin 7 to 52P-P064A pin G or right, 61P-R016C pin 8 to 52P-R066A pin D 61P-R016C pin 7 to 52P-R066A pin G? .....</p>	d	e

**Table 2. GO Light On Test Set Does Not Come On, Breech Or Motor Fire  
(Continued)**

Procedure	No	Yes
d. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step n .....	-	-
e. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step n .....	-	-
f. Do substeps listed below:		
(1) On GND PWR control panel assembly, set 3 switch to AUTO.		
(2) Set DC SIGNAL RELAYS switch to RESET and then to ON.		
(3) Set and hold 3 switch to B ON for 3 seconds. Allow 2 minute warmup.		
(4) On aircraft controller grip assembly, move A/A weapon select switch to SP (fwd).		
(5) On aircraft controller grip assembly, press gun/A/A missile trigger switch to second detent. Does 28vdc exist between left 52P-P064A pins A and B (ground) or right 52P-R066A pins A and B (ground)? .....	g	h
g. Do substeps listed below:		
(1) On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.		
(2) Turn off electrical power (A1-F18AC-LMM-000).		
(3) Disconnect left 61P-P014C or right 61P-R016C from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(4) Does continuity exist from:		
left, 61P-P014C pin 4 to 52P-P064A pin B		
61P-P014C pin 5 to 52P-P064A pin A		
or		
right, 61P-R016C pin 4 to 52P-R066A pin B		
61P-R016C pin 5 to 52P-R066A pin A? .....	d	e
h. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step n .....	-	-
i. Do substeps listed below:		
<b>NOTE</b>		
This procedure applies to wing stations 2 and 8.		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).		

**Table 2. GO Light On Test Set Does Not Come On, Breech Or Motor Fire  
(Continued)**

Procedure	No	Yes
<p>(3) Disconnect 61P-W095A from 61J-W095A on Aircraft Guided Missile Launcher LAU-115C/A.</p> <p>(4) Disconnect 61P-W093 from 61J-W093 AIR-AIR on pylon stores electrical disconnect panel.</p> <p>(5) Does continuity exist from:</p> <p>61P-W093 pin 23 to 61P-W095A pin B</p> <p>61P-W093 pin 24 to 61P-W095A pin A? .....</p>	j	k
<p>j. Replace LAU-115C/A Jumper Cable W56229 (A1-F18AC-740-300, WP025 00) and do step n .....</p>	-	-
<p>k. Do substeps listed below:</p> <p>(1) Open door 504 on wing pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W012D from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).</p> <p>(3) Does continuity exist from:</p> <p>61J-W093 pin 23 to 61P-W012D pin H</p> <p>61J-W093 pin 24 to 61P-W012D pin G? .....</p>	l	m
<p>l. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step n ...</p>	-	-
<p>m. Malfunction is caused by one of the items listed below:</p> <p>(1) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).</p> <p>(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>Do step n .....</p>	-	-
<p>n. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 52P-P064A or 52P-R066A</p> <p>(2) 61P-P014C or 61P-R016C</p> <p>(3) 61P-W093</p> <p>(4) 61P-W095A</p> <p>(5) 61P-W012D</p> <p>(6) Door 45L or 45R</p>		

**Table 2. GO Light On Test Set Does Not Come On, Breech Or Motor Fire  
(Continued)**



Procedure	No	Yes
(7) On 161353 THRU 161944, door 46L or 46R		
(8) Door 502 and 504		
(9) Disconnect proximity switch control		
(10) Remove connector and housing .....	-	-

**Table 3. GO Light On Test Set Does Not Come On, S/V Test AIM-7  
Breech Or Motor Fire**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
74D750022- 1001	Test - Signal Adapter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC- 740-500, WP043 00) and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-115C/A	
Aircraft Guided Missile Launcher LAU-116( )	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	
LAU-115C/A Jumper Cable W56229	
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	



**Table 3. GO Light On Test Set Does Not Come On, S/V Test AIM-7  
Breech Or Motor Fire (Continued)**

Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Is this a wing station Aircraft Guided Missile Launcher LAU-115C/A? .....	b	i
b. Do substeps listed below:		
<div style="text-align: center;"> <p><b>NOTE</b></p> <p>This procedure applies to both left and right fuselage stations. Connectors will be noted as left to identify left fuselage station 4 or right to identify right fuselage station 6.</p> </div> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) On 161353 THRU 161944, open doors 45L and 46L or 45R and 46R (A1-F18AC-LMM-010).</li> <li>(3) On 161945 AND UP, open door 45L or 45R (A1-F18AC-LMM-010).</li> <li>(4) Disconnect left 52P-P064A or right 52P-R066A from 61J-Y200A, Aircraft Guided Missile Launcher LAU-116( ).</li> <li>(5) Connect connector and housing assembly to umbilical connector and set DC SIGNAL RELAYS switch ON.</li> </ol>		
<div style="text-align: center;">  <p>WARNING</p> </div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		

**Table 3. GO Light On Test Set Does Not Come On, S/V Test AIM-7  
Breach Or Motor Fire (Continued)**

Procedure	No	Yes
<p>(6) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(7) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(8) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</p> <p>(9) On MC/HYD ISOL control panel assembly, set MC switch to NORM.</p> <p>(10) On LDDI, set power switch to DAY or NIGHT. Allow 2 minute warmup.</p> <p>(11) On LDDI, press MENU pushbutton switch.</p> <p>(12) On LDDI, press STORES pushbutton switch.</p> <p>(13) On SNSR pod control box panel assembly, set RADAR switch to OPR.</p> <p>(14) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(15) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(16) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(17) On master arm control panel assembly, press and release A/A switch.</p> <p>(18) On aircraft controller grip assembly, move A/A weapon select switch to SP (fwd).</p> <p>(19) Press and release gun/A/A missile trigger switch to second detent.</p> <p>(20) Does 28vdc exist at left 52P-P064A pins D and G or right 52P-R066A pins D and G? .....</p>	c	d
<p>c. Do substeps listed below:</p> <p>(1) On GND PWR control panel assembly, set 3 switch to AUTO.</p> <p>(2) Set DC SIGNAL RELAYS switch to RESET and then to ON.</p> <p>(3) Set and hold 3 switch to B ON for 3 seconds. Allow 2 minute warmup.</p> <p>(4) On aircraft controller grip assembly, move A/A weapon select switch to SP (fwd).</p> <p>(5) On aircraft controller grip assembly, press and release gun/A/A missile trigger switch to second detent.</p> <p>(6) Does 28vdc exist between left 52P-P064A pins A and B (ground) or right 52P-R066A pins A and B (ground)? .....</p>	e	f

**Table 3. GO Light On Test Set Does Not Come On, S/V Test AIM-7  
Breach Or Motor Fire (Continued)**

Procedure	No	Yes
<p>d. Do substeps listed below:</p> <p>(1) On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.</p> <p>(2) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(3) Disconnect left 61P-P014C or right 61P-R016C from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).</p> <p>(4) Does continuity exist from:</p> <p>left, 61P-P014C pin 8 to 52P-P064A pin D 61P-P014C pin 7 to 52P-P064A pin G or right, 61P-R016C pin 8 to 52P-R066A pin D 61P-R016C pin 7 to 52P-R066A pin G? .....</p>	g	h
<p>e. Replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00) and do step n .....</p>	-	-
<p>f. Do substeps listed below:</p> <p>(1) On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.</p> <p>(2) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(3) Disconnect left 61P-P014C or right 61P-R016C from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).</p> <p>(4) Does continuity exist from:</p> <p>left, 61P-P014C pin 4 to 52P-P064A pin B 61P-P014C pin 5 to 52P-P064A pin A or right, 61P-R016C pin 4 to 52P-R066A pin B 61P-R016C pin 5 to 52P-R066A pin A? .....</p>	g	h
<p>g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step n .....</p>	-	-
<p>h. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step n .....</p>	-	-
<p>i. Do substeps listed below:</p> <p align="center"><b>NOTE</b></p> <p align="center">This procedure applies to wing stations 2 and 8.</p>		

**Table 3. GO Light On Test Set Does Not Come On, S/V Test AIM-7  
Breach Or Motor Fire (Continued)**

Procedure	No	Yes
<p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W093 from 61J-W093 AIR-AIR on pylon stores electrical disconnect panel.</p> <p>(4) Disconnect 61P-W095A from 61J-W095A on Aircraft Guided Missile Launcher LAU-115C/A.</p> <p>(5) Does continuity exist from:</p> <p>61P-W093 pin 23 to 61P-W095A pin B</p> <p>61P-W093 pin 24 to 61P-W095A pin A? .....</p>	j	k
j. Replace LAU-115C/A Jumper Cable W56229 (A1-F18AC-740-300, WP025 00) and do step n .....	-	-
k. Do substeps listed below:		
<p>(1) Open door 504 on wing pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W012D from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.</p> <p>(3) Does continuity exist from:</p> <p>61J-W093 pin 23 to 61P-W012D pin H</p> <p>61J-W093 pin 24 to 61P-W012D pin G? .....</p>	l	m
l. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step n ...	-	-
m. Malfunction is caused by one of the items listed below:		
<p>(1) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>(2) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).</p> <p>Do step n .....</p>	-	-
n. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
<p>(1) 52P-P064A or 52P-R066A</p> <p>(2) 61P-P014C or 61P-R016C</p> <p>(3) 61P-W093</p>		

**Table 3. GO Light On Test Set Does Not Come On, S/V Test AIM-7  
Breach Or Motor Fire (Continued)**

Procedure	No	Yes
(4) 61P-W095A		
(5) 61P-W012D		
(6) Door 45L or 45R		
(7) On 161353 THRU 161944, door 46L or 46R		
(8) Door 502 and 504		
(9) Disconnect proximity switch control		
(10) Remove connector and housing .....	-	-

**Table 4. X Remains Displayed Through 7F, 7M or 7H, Not Tuned**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
AIM-7 Sparrow Avionic Interface Schematic (A1-F18AC-740-500, WP045 00) and Weapon Station 2, 3, 7, 8 AIM-7 Sparrow Schematic (A1-F18AC- 740-500, WP043 00) and Weapon Station 4, 6 AIM-7 Sparrow Schematic (A1-F18AC-740-500, WP044 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-115C/A	
Aircraft Guided Missile Launcher LAU-116( )	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
Armament Computer CP-1342/AYQ-9(V)	
Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	
LAU-115/A Jumper Cable W56229	

Table 4. X Remains Displayed Through 7F, 7M or 7H, Not Tuned (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX1 scale.</p> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Is this a wing station Aircraft Guided Missile Launcher LAU-115C/A? .....	b	f
b. Do substeps listed below:		
<div style="text-align: center;"> <p><b>NOTE</b></p> <p>This procedure applies to both left and right fuselage stations. Connectors will be noted as left to identify left fuselage station 4 or right to identify right fuselage station 6.</p> </div>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On 161353 THRU 161944, open doors 45L and 46L or 45R and 46R (A1-F18AC-LMM-010).		
(3) On 161945 AND UP, open door 45L or 45R (A1-F18AC-LMM-010).		
(4) Disconnect left 52P-P064B or right 52P-R066B from 61J-Y200B, Aircraft Guided Missile Launcher LAU-116( ).		
(5) Disconnect left 61P-P014A or right 61P-R016A from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(6) Does continuity exist from:		
left, 61P-P014A pin 33 to 52P-P064B pin h		
61P-P014A pin 85 to 52P-P064B pin T		
or		
right, 61P-R016A pin 33 to 52P-R066B pin h		
61P-R016A pin 85 to 52P-R066B pin T? .....	c	d

Table 4. X Remains Displayed Through 7F, 7M or 7H, Not Tuned (Continued)

Procedure	No	Yes
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step j .....	-	-
d. Do substeps listed below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(3) Remove SNSR pod control box panel assembly and disconnect 52P-J080 (A1-F18AC-742-300, WP017 00).		
(4) Does continuity exist from 61P-F001B pin 43 to 52P-J080 pin 32? .....	c	e
e. Malfunction is caused by one of the items listed below:		
(1) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).		
(2) Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).		
(3) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(4) Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00). Do step j .....	-	-
f. Do substeps listed below:		
<b>NOTE</b>		
This procedure applies to wing stations 2 and 8.		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from 61J-W093 AIR-AIR on pylon stores electrical disconnect panel.		
(4) Disconnect 61P-W095A from 61J-W095A on Aircraft Guided Missile Launcher LAU-115C/A.		
(5) Does continuity exist from:		
61P-W093 pin 40 to 61P-W095A pin v		
61P-W093 pin 26 to 61P-W095A pin y? .....	g	h
g. Replace LAU-115C/A Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step j .....	-	-
h. Do substeps listed below:		

**Table 4. X Remains Displayed Through 7F, 7M or 7H, Not Tuned (Continued)**

Procedure	No	Yes
<p>(1) Open door 504 on wing pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W012D from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.</p> <p>(3) Does continuity exist from:</p> <p>61J-W093 pin 40 to 61P-W012D pin b</p> <p>61J-W093 pin 26 to 61P-W012D pin t? .....</p>	i	d
i. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step j ...	-	-
j. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 52P-P064B or 52P-R066B		
(2) 61P-P014A or 61P-R016A		
(3) 61P-W093		
(4) 61P-W095A		
(5) 61P-F001B		
(6) 52P-J080		
(7) Door 14R		
(8) Door 45L or 45R		
(9) On 161353 THRU 161944, door 46L or 46R		
(10) Door 502 or 504		
(11) SNSR pod control box panel assembly .....	-	-



**Table 5. Status Not Displayed On DDI For Selected A/A Weapon**

<p align="center"><b>Support Equipment Required</b></p> <p align="center">None</p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>AIM-7 Sparrow Avionics Interface Schematic (A1-F18AC-740-500, WP045 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Armament Computer CP-1342/AYQ-9(V)  Digital Data Computer No. 2  Digital Display Indicator IP-1317/( )</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
a. Do substeps listed below:		
(1) On RDDI, press MENU pushbutton switch.		
(2) On RDDI, press STORES pushbutton switch.		
(3) On master arm control panel assembly, set MASTER switch to ARM.		
(4) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(5) Is display correct on RDDI? .....	b	c
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) .....	-	-
c. Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00 .....	-	-

Table 6. SAFETY LOCK DRIVE Does Not Move to UNLOCK or LOCK

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00) may be used as an aid when doing this procedure.		
For component locator, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-115C/A		
Aircraft Wing Pylon SUU-63( )		
Aircraft Wiring		
LAU-115C/A Jumper Cable W56235		
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 6. SAFETY LOCK DRIVE Does Not Move to UNLOCK or LOCK (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095A from Aircraft Guided Missile Launcher LAU-115C/A.		
<div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(4) Connect proximity switch control (A1-F18AC-LMM-000).		
(5) Install jumper wire from 61P-W095A pin v to aircraft ground.		
(6) Turn on electrical power (A1-F18AC-LMM-000).		
(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
(8) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(9) On master arm control panel assembly, press and release A/A switch.		
(10) Does 28vdc exist at 61P-W095A pin EE? .....	b	c
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W093 from 61J-W093 AIR-AIR receptacle on pylon stores electrical disconnect panel.		

**Table 6. SAFETY LOCK DRIVE Does Not Move to UNLOCK or LOCK (Continued)**

Procedure	No	Yes
(3) Does continuity exist from 61P-W095A pin EE to 61P-W093 pin 8? .....	d	e
c. Does 28vdc exist at 61P-W095A pin KK for UNLOCK? .....	f	n
d. Replace LAU-115C/A Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step p .....	-	-
e. Do substeps listed below:		
(1) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Does 28vdc exist at 61P-W012A pin JJ? .....	h	m
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.		
(4) Does continuity exist from:		
61P-W095A pin KK to 61P-W012D pin g		
61P-W095A pin v to 61P-W012D pin b		
61P-W095A pin DD to 61P-W012D pin T? .....	g	m
g. Do substeps listed below:		
(1) Disconnect 61P-W093 from 61J-W093 AIR-AIR receptacle on pylon stores electrical disconnect panel.		
(2) Does continuity exist from:		
61P-W095A pin KK to 61P-W093 pin 41		
61P-W095A pin v to 61P-W093 pin 40		
61P-W095A pin DD to 61P-W093 pin 7? .....	d	k
h. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L or door 10R (A1-F18AC-LMM-010).		

**Table 6. SAFETY LOCK DRIVE Does Not Move to UNLOCK or LOCK (Continued)**

Procedure	No	Yes
<p>(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly for right wing pylons or disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly for left wing pylons.</p> <p>(4) Does continuity exist from:</p> <p>On 161353 THRU 161359, right inboard 61P-W012A pin JJ to 52P-D026C pin g</p> <p>On 161360 AND UP, right inboard 61P-W012A pin JJ to 52P-D026C pin u</p> <p>On 161353 THRU 161359, right outboard 61P-W012A pin JJ to 52P-D026C pin h</p> <p>On 161360 AND UP, right outboard 61P-W012A pin JJ to 52P-D026C pin t left outboard 61P-W012A pin JJ to 52P-C057C pin r left inboard 61P-W012A pin JJ to 52P-C057C pin k? .....</p>	i	l
i. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist from:		
On 161353 THRU 161359, right inboard 52J-V067 pin 75 or 102 to 52P-D026C pin g		
On 161360 AND UP, right inboard 52J-V067 pin 75 or 102 to 52P-D026C pin u		
On 161353 THRU 161359, right outboard 52J-V068 pin 75 or 102 to 52P-D026C pin h		
On 161360 AND UP, right outboard 52J-V068 pin 75 or 102 to 52P-D026C pin t left outboard 52J-U062 pin 75 or 102 to 52P-C057C pin r left inboard 52J-U063 pin 75 or 102 to 52P-C057C pin k? .....	j	k
j. Isolate defective aircraft wiring (A1-F18( )-WDM-000) and do step p .....	-	-
k. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step p ..	-	-
l. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD075 or 61CBD079 (A1-F18AC-420-300, WP025 00) or no. 7 circuit breaker/relay panel assembly wiring and 61CBC059 or 61CBC055 (A1-F18AC-420-300, WP027 00) and do step p .....	-	-
m. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step p .....	-	-

**Table 6. SAFETY LOCK DRIVE Does Not Move to UNLOCK or LOCK (Continued)**

Procedure	No	Yes
n. Do substeps listed below:		
(1) On master arm control panel assembly, press and release A/A switch.		
(2) On proximity switch control, set NOSE GEAR, MAIN GEAR and GEAR UPLOCK switches to NORM.		
(3) Does 28vdc exist at 61P-W095A pin DD for LOCK? .....	f	o
o. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step p .....	-	-
p. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W095A		
(2) 61P-W093		
(3) 61P-W012A		
(4) 61P-W012D		
(5) 52P-C057C		
(6) 52P-D026C		
(7) Door 10L or 10R		
(8) Door 502 and 504		
(9) Aircraft Wing Pylon SUU-63( )		
(10) Remove jumper wire		
(11) Disconnect proximity switch control .....	-	-

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ORGANIZATIONAL MAINTENANCE

TESTING AND TROUBLESHOOTING

TESTING - AGM-84 HARPOON WEAPON SYSTEM TEST

SUSPENSION AND RELEASE MECHANISMS

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Title	WP Number
Testing - AGM-84 Harpoon Weapon System Test Using Simulator Test	
Set TS-3519/DSM .....	029 11
Testing - AGM-84 Harpoon Weapon System Test Using Simulator Test	
Set TS-3619D/DSM .....	029 10





## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-84 HARPOON WEAPON SYSTEM TEST

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74

## Reference Material

Airborne Weapons/Stores Loading ..... A1-F18AE-LWS-000  
 Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. SIM PWR or DC WARM UP GO Indicator on Simulator Fails To Come On

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

**Table 1. SIM PWR or DC WARM UP GO Indicator on Simulator Fails To Come On (Continued)**

<p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP053 00 or WP054 00) may be used as aids when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Harpoon Jumper Cable W56236 No. 2 Relay Panel Assembly No. 4 Circuit Breaker Panel Assembly No. 7 Circuit Breaker/Relay Panel Assembly</p>		
Procedure	No	Yes
<p align="center"></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 61P-W112 from 6LJ-W112 on pylon stores electrical disconnect panel.</li> </ol>		

**Table 1. SIM PWR or DC WARM UP GO Indicator on Simulator Fails To Come On (Continued)**

Procedure	No	Yes
<p>(4) Does continuity exist from:</p> <p>61P-W112 pin 1 to 61P-W251 pins 4, 7, and 26</p> <p>61P-W112 pin 89 to 61P-W251 pin 27</p> <p>61P-W112 pin 36 to 61P-W251 pin 19</p> <p>61P-W112 pin 2 to 61P-W251 pin 32</p> <p>61P-W112 pin 51 to 61P-W251 pin 11? .....</p>	b	c
b. Replace Harpoon Jumper Cable W56236 (A1-F18AE-LWS-000) and do step j .....	-	-
c. Do substeps listed below:		
<p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist from:</p> <p>Station 2: 52J-U062 pins 20, 22, and 93 to ground</p> <p>Station 3: 52J-U063 pins 20, 22, and 93 to ground</p> <p>Station 7: 52J-V067 pins 20, 22, and 93 to ground</p> <p>Station 8: 52J-V068 pins 20, 22, and 93 to ground? .....</p>	e	h
d. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step j .....	-	-
e. Is this harpoon station 2 or 3? .....	f	g
f. Do substeps listed below:		
<p>(1) Open doors 10R and 14R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-F058D from no. 2 relay panel assembly.</p> <p>(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.</p> <p>(4) Does continuity exist from:</p> <p>Station 7:</p> <p>52J-V067 pin 52 to 52P-F058D pin V</p> <p>52J-V067 pin 94 to 52P-D026C pin u</p> <p>Station 8:</p> <p>52J-V068 pin 52 to 52P-F058D pin T</p> <p>52J-V068 pin 94 to 52P-D026C pin t? .....</p>	d	i
g. Do substeps listed below:		
(1) Open door 14R (A1-F18AC-LMM-010).		

**Table 1. SIM PWR or DC WARM UP GO Indicator on Simulator Fails To  
Come On (Continued)**

Procedure	No	Yes
<p>(2) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p> <p>(3) Does continuity exist from:</p> <p>    Station 2:</p> <p>        52J-U062 pin 52 to 52P-C057C pin a</p> <p>        52J-U062 pin 94 to 52P-C057C pin r</p> <p>    Station 3:</p> <p>        52J-U063 pin 52 to 52P-C057C pin b</p> <p>        52J-U063 pin 94 to 52P-C057C pin k? .....</p>		
h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step j ...	-	-
i. Do one of the substeps listed below:		
(1) Station 2: Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and 61CBC055 or do table 1, (WP029 07) and do step j .....	-	-
(2) Station 3: Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and 61CBC059 or do table 2, (WP029 07) and do step j .....	-	-
(3) Station 7: Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBC075 (A1-F18AC-420-300, WP025 00) or do table 1, (WP029 08) and do step j .....	-	-
(4) Station 8: Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD079 (A1-F18AC-420-300, WP025 00) or do table 2, (WP029 08) and do step j .....	-	-
j. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W112		
(2) 52P-C057C		
(3) 52P-F058D		
(4) 52P-D026C		
(5) Door 10R		
(6) Door 14R		
(7) Door 502		



**Table 1. SIM PWR or DC WARM UP GO Indicator on Simulator Fails To Come On (Continued)**

Procedure	No	Yes
(8) Aircraft Wing Pylon SUU-63( ) .....	-	-

**Table 2. GO Light On Test Set Does Not Come On, Harpoon Release**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Release Consent Interconnect Schematic (A1-F18AC-740-500, WP004 01), AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP053 00 or WP054 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Bomb Ejector Rack BRU-32( )	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
Master Arm Control Panel Assembly	
Release Consent Dummy Panel	
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	
Wing Pylon Relay Box Assembly	

Table 2. GO Light On Test Set Does Not Come On, Harpoon Release (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.</li> <li>(3) Connect a ground at 61P-W097A pins A and T and at 61P-W251 pin 8.</li> <li>(4) Connect jumper wire between pins 4 and 8 on 61P-W251.</li> <li>(5) Open door 14R (A1-F18AC-LMM-010).</li> <li>(6) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 62 (HP or HPD) or 63 (THP or THPD).</li> </ol> <div style="text-align: center;">  <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> <ol style="list-style-type: none"> <li>(7) Connect proximity switch control (A1-F18AC-LMM-000).</li> <li>(8) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(9) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</li> <li>(10) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK to UP.</li> </ol> </div> </div>		

**Table 2. GO Light On Test Set Does Not Come On, Harpoon Release (Continued)**

Procedure	No	Yes
(11) On master arm control panel assembly, press and release A/G switch.		
(12) Ensure release consent dummy panel is installed.		
(13) Do the release circuit test steps 6c, 6d, 6f, and 6g to select display. Table 1 (WP029 10).		
(14) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(a) Connect multimeter between 61P-W097A pins J and X (ground).		
(b) On aircraft controller grip assembly, press and release A/G weapon release switch and test for 28vdc at 61P-W097A pin J.		
(c) Repeat substeps (a) and (b) for 61P-W097A pin H and X (ground).		
(d) Did 28vdc exist at 61P-W097A pins J and H? .....	b	i
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W258 from wing pylon relay box assembly.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Connect multimeter between 61P-W258 pins A and B (ground).		
(5) Does 28vdc exist at 61P-W258 pin A? .....	c	k
c. Is this an outboard station? .....	d	m
d. On inboard stations, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove master arm control panel assembly (A1-F18AC-740-300, WP013 00).		
(3) Disconnect 52P-H075 from master arm control panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) Does 28vdc exist at 52P-H075 pin 3? .....	e	f
e. Do table 1, WP010 17 and do step q .....	-	-
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		

Table 2. GO Light On Test Set Does Not Come On, Harpoon Release (Continued)

Procedure	No	Yes
(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(3) Does continuity exist from:		
left inboard 52J-U063 pin 49 to 52P-H075 pin 30		
right inboard 52J-V067 pin 49 to 52P-H075 pin 30? .....	g	h
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step q .....	-	-
h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) or replace master arm control panel assembly (A1-F18AC-740-300, WP013 00) and do step q .....	-	-
i. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist from:		
right inboard 52J-V067 pin 71 to aircraft ground		
right outboard 52J-V068 pin 71 to aircraft ground		
left outboard 52J-U062 pin 71 to aircraft ground		
left inboard 52J-U063 pin 71 to aircraft ground? .....	g	j
j. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step q .....	-	-
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing pylon that failed.		
(4) Does continuity exist from:		
aircraft ground to 61P-W097A pin X		
61P-W258 pin M to 61P-W097A pin J		
61P-W258 pin C to 61P-W097A pin H		
61P-W258 pin K to 61P-W012A pin X		
61P-W258 pin P to 61P-W012A pin Y		
61P-W097A pin A to 61P-W012A pin HH		
61P-W097A pin T to 61P-W012A pin h? .....	l	o
l. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step q ...	-	-
m. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		



**Table 2. GO Light On Test Set Does Not Come On, Harpoon Release (Continued)**



Procedure	No	Yes
(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(3) Remove release consent dummy panel (A1-F18AC-740-300, WP003 00).		
(4) Disconnect 61P-J022C from release consent dummy panel.		
(5) Does continuity exist from:		
left outboard 52J-U062 pin 49 to 61P-J022C pin 4		
right outboard 52J-V068 pin 49 to 61P-J022C pin 2? .....	g	n
n. Does continuity exist from 61P-J022C pin 9 to 52P-H075 pin 30? .....	g	p
o. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) or repair wing pylon relay box assembly (A1-F18AC-740-300, WP035 00) and do step q .....	-	-
p. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) or replace release consent dummy panel  or Control-Monitor C-10295/AWB-3(V) (A1-F18AC-740-300, WP003 00) and do step q .....	-	-
q. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W097A		
(2) 61P-W012A		
(3) 61P-J022C		
(4) 61P-W258		
(5) 52P-H075		
(6) Door 14R		
(7) Door 504		
(8) Master arm control panel assembly		
(9) Release consent dummy panel		
(10) Disconnect proximity switch control		
(11) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		

Table 3. GO Light On Test Set Does Not Come On, S/V Test Harpoon


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP053 00 or WP054 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-32( )		
Aircraft Wing Pylon SUU-63( )		
Wing Pylon Command Signal Encoder-Decoder KY-863/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

Table 3. GO Light On Test Set Does Not Come On, S/V Test Harpoon (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.</li> <li>(3) Connect a ground at 61P-W097A pins A and T and at 61P-W251 pin 8.</li> <li>(4) Open door 14R (A1-F18AC-LMM-010).</li> <li>(5) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 62 (HP or HPD) or 63 (THP or THPD).</li> </ol>		
<p style="text-align: center;"><b>WARNING</b></p> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<ol style="list-style-type: none"> <li>(6) Connect proximity switch control (A1-F18AC-LMM-000).</li> <li>(7) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(8) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</li> <li>(9) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK to UP.</li> <li>(10) On master arm control panel assembly, press and release A/G switch.</li> <li>(11) Ensure release consent dummy panel is installed.</li> <li>(12) Do the release circuit test steps 6c, 6d, 6f, and 6g to select display (Table 1, WP029 10).</li> </ol>		

**Table 3. GO Light On Test Set Does Not Come On, S/V Test Harpoon (Continued)**

Procedure	No	Yes
(13) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(a) On aircraft controller grip assembly, press and release A/G weapon release switch to second detent.		
(b) Connect multimeter between 61P-W097A pins J and X (ground) or pin H and X (ground).		
(c) Does 28vdc exist at 61P-W097A pins J or H? .....	b	c
b. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step f .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.		
(4) Does continuity exist from:		
61P-W012A pin X to 61P-W097A pin J		
61P-W012A pin Y to 61P-W097A pin H? .....	e	d
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f ...	-	-
e. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step f .....	-	-
f. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W097A		
(2) 61P-W012A		
(3) Door 14R		
(4) Door 504		
(5) Disconnect proximity switch control .....	-	-

**Table 4. Wrong Indications on Simulator During Harpoon Release**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP053 00 or WP054 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Harpoon Jumper Cable W56236 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

Table 4. Wrong Indications on Simulator During Harpoon Release (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W093 from 61J-W093 on pylon stores electrical disconnect panel.</p> <p>(4) Disconnect 61P-W112 from 61J-W112.</p> <p>(5) Does continuity exist from:</p> <p><span style="border: 1px solid black; padding: 0 2px;">2</span> 61P-W112 pin 69 to 61P-W251 pin 10          61P-W112 pin 22 to 61P-W251 pin 16          61P-W112 pin 24 to 61P-W251 pin 3          61P-W112 pin 77 to 61P-W251 pin 33          61P-W112 pin 87 to 61P-W251 pin 2          61P-W093 pin 38 to 61P-W251 pin 35? .....</p>	b	c
b. Replace Harpoon Jumper Cable W56236 (A1-F18AE-LWS-000) and do step h .....	-	-
<p>c. Do substeps listed below:</p> <p>(1) Open door 504 on wing pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W012C and 61P-W012D from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).</p> <p>(3) Does continuity exist from:</p> <p><span style="border: 1px solid black; padding: 0 2px;">2</span> 61P-W012C pin n to 61J-W112 pin 69          61P-W012C pin C to 61J-W112 pin 24          61P-W012C pin q to 61J-W112 pin 22          61P-W012C pin D to 61J-W112 pin 77          61P-W012C pin f to 61J-W112 pin 87          61P-W012D pin FF to 61J-W093 pin 38? .....</p>	d	e
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step h ..	-	-
e. Do substeps listed below:		

**Table 4. Wrong Indications on Simulator During Harpoon Release (Continued)**

Procedure	No	Yes
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist from:		
Station 2: 52J-U062 pins 20, <input type="checkbox"/> 1 22 or <input type="checkbox"/> 2 39 and 93 to ground		
Station 3: 52J-U063 pins 20, <input type="checkbox"/> 1 22 or <input type="checkbox"/> 2 39 and 93 to ground		
Station 7: 52J-V067 pins 20, <input type="checkbox"/> 1 22 or <input type="checkbox"/> 2 39 and 93 to ground		
Station 8: 52J-V068 pins 20, <input type="checkbox"/> 1 22 or <input type="checkbox"/> 2 39 and 93 to ground? .....	f	g
f. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h .....	-	-
g. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step h .....	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W112		
(2) 61P-W093		
(3) 61P-W012C		
(4) 61P-W012D		
(5) Door 502 and door 504		
(6) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		





## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-84 HARPOON WEAPON STATION POWER CONTROL, PART 1

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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


## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Harpoon Weapon Station 2 115vac Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

Table 1. Harpoon Weapon Station 2 115vac Power Control Fail (Continued)

<p style="text-align: center;"><b>Materials Required</b></p> <p style="text-align: center;">None</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Weapon Station 2 Power Control Schematic, AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP027 00, WP054 00, and WP053 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Aircraft Wiring</p> <p>Armament Computer CP-1342/AYQ-9(V)</p> <p>Harpoon Jumper Cable W56236</p> <p>Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p> <p>No. 7 Circuit Breaker/Relay Panel Assembly</p> <p> No. 11 Relay Panel Assembly</p> <p>Simulator Test Set TS-3519D/DSM</p>		
Procedure	No	Yes
<p style="text-align: center;"></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p> 52P-C057E</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a Is troubleshooting being done for 115vac existing when it should be off? .....</p> <p>b. Do substeps below:</p>		
	b	u

**Table 1. Harpoon Weapon Station 2 115vac Power Control Fail (Continued)**

Procedure	No	Yes
(1) Make sure electrical power is off (A1-F18AC-LMM-000). (2) On pylon, open door 502 (A1-F18AC-LMM-010). (3) Disconnect 61P-W251 (Harpoon Jumper Cable W56236) from test set. (4) Connect jumper wire between 61P-W251 pin 8 (Harpoon Ident) and pin 4 (28vdc). (5) Close BRU-32 FWD and AFT hooks. (6) Turn electrical power on (A1-F18AC-LMM-000). (7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. (8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display. (9) On RDDI: (a) Press MENU pushbutton switch. (b) Press STORES pushbutton switch. (c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 2?	c	d
c. Do table 1, WP029 09 .....	-	-
d. Memory inspect station 2 (weapon) power control (CORESV+4/BIT 6) by doing the below: (1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XX3XXX? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between 61P-W251 pins 28, 29, 30, and pin 31 (aircraft ground)? .....	h	g
g. Replace test set. Do step ad .....	-	-

Table 1. Harpoon Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(4) Does continuity exist between:		
61P-W093 pins 56/67 and 61P-W251 pin 28		
61P-W093 pins 77/78 and 61P-W251 pin 29		
61P-W093 pins 86/87 and 61P-W251 pin 30		
61P-W093 pins 9/68 and 61P-W251 pins 14/15/31? .....	i	j
i. Replace Harpoon Jumper Cable W56236 (A1-F18AE-LWS-000) Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.		
(4) Does continuity exist between:		
<input type="checkbox"/> 1 52P-C057C pin u or <input type="checkbox"/> 2 52P-U045C pin e and 61P-W251 pin 28		
<input type="checkbox"/> 1 52P-C057C pin t or <input type="checkbox"/> 2 52P-U045C pin d and 61P-W251 pin 29		
<input type="checkbox"/> 1 52P-C057C pin s or <input type="checkbox"/> 2 52P-U045C pin c and 61P-W251 pin 30		
Aircraft ground and 61P-W251 pin 31? .....	k	n
k. Do substeps below:		
(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-U062 pin 95 and <input type="checkbox"/> 1 52P-C057C pin u or <input type="checkbox"/> 2 52P-U045C pin e		
52J-U062 pin 96 and <input type="checkbox"/> 1 52P-C057C pin t or <input type="checkbox"/> 2 52P-U045C pin d		
52J-U062 pin 97 and <input type="checkbox"/> 1 52P-C057C pin s or <input type="checkbox"/> 2 52P-U045C pin c		
52J-U062 pin 82/87 and aircraft ground .....	l	m
1. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		

Table 1. Harpoon Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(1) Disconnect <input type="checkbox"/> 1 52P-C057E from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045B from no. 11 relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-C057E pin 71 and pin 86 (aircraft ground) or <input type="checkbox"/> 2 52P-U045B pin s and aircraft ground? .....</p> <p>o. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 122 and <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s? .....</p> <p>p. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p><input type="checkbox"/> 1 (4) Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.</p> <p>(5) Does continuity exist between 61P-F001B pin 26 and <input type="checkbox"/> 1 52P-C057F pin 14 or <input type="checkbox"/> 2 52P-U045B pin e? .....</p> <p>q. <input type="checkbox"/> 2 Do substeps below:</p> <p>(1) Disconnect 52P-U045A.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) Does 115vac exists between 52P-U045A pins A, B, S and aircraft ground? .....</p> <p>r. <input type="checkbox"/> 2 Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p>	<p>o</p> <p>l</p> <p>l</p> <p>r</p>	<p>p</p> <p>e</p> <p>s or q</p> <p>t</p>

Table 1. Harpoon Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(4) Does continuity exists between:</p> <p>52P-C057C pin u and 52P-U045A pin A  52P-C057C pin t and 52P-U045A pin B  52P-C057C pin s and 52P-U045A pin S? .....</p>	l	s
<p>s. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, station 2 power control relay (61K-C122), and ARM STA 2 circuit breakers (61CBC056, 61CBC057, 61CBC058) (A1-F18AC-420-300, WP027 00). Do step ad .....</p>	-	-
<p>t. <input type="checkbox"/> 2 Isolate malfunction between no. 11 relay panel assembly wiring and station 2 power control relay (61K-U122) (A1-F18AC-420-300, WP043 00). Do step ad .....</p>	-	-
<p>u. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 2? .....</p>	y	v
<p>v. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012D from encoder-decoder.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(6) Does 28vdc exist between 61P-W012D pin C (Harpoon Ident) and aircraft ground? .....</p>	w	x

Table 1. Harpoon Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
w. Replace Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Turn electrical power on (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(5) Does 28vdc exist between 61P-W012D pin C (Harpoon Ident) and aircraft ground? .....	i	m
y. Memory inspect station 2 (weapon) power control (CORESV+4/BIT 6) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XX3XXX? .....	z	e
z. Does 115vac exist between 61P-W251 pins 28, 29, 30, and pin 31 (aircraft ground)? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(4) On Harpoon jumper cable W56236, does continuity exist between:		

Table 1. Harpoon Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
61P-W093 pins 56/67 and 61P-W251 pin 28 61P-W093 pins 77/78 and 61P-W251 pin 29 61P-W093 pins 86/87 and 61P-W251 pin 30? .....	i	ab
ab. Do substeps below:  (1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) Does 115vac exist between 52J-U062 pins 95, 96, 97, and pin 87 (aircraft ground)? .....	m	ac
ac. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  <input type="checkbox"/> (2) Open door 10L (A1-F18AC-LMM-010).  (3) Disconnect <input type="checkbox"/> 52P-C057C from no. 7 circuit breaker/relay panel assembly, or <input type="checkbox"/> 52P-U045A from no. 11 relay panel assembly.  <p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Bent/recessed pins in connectors are a common cause of stray voltage.</p> (4) Does continuity exist between:  <input type="checkbox"/> 52P-C057C pin u or <input type="checkbox"/> 52J-U045A pin A and 52J-U062 pins 95 <input type="checkbox"/> 52P-C057C pin t or <input type="checkbox"/> 52J-U045A pin B and 52J-U062 pins 96 <input type="checkbox"/> 52P-C057C pin s or <input type="checkbox"/> 52J-U045A pin S and 52J-U062 pins 97? .....	l	t
ad. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.  (1) 52P-C057C <input type="checkbox"/> (2) 52P-C057E <input type="checkbox"/> (3) 52P-C057F <input type="checkbox"/> (4) 52P-U045A <input type="checkbox"/> (5) 52P-U045B <input type="checkbox"/> (6) 52P-U045C (7) 61P-W093 (8) 61P-W012D		



**Table 1. Harpoon Weapon Station 2 115vac Power Control Fail (Continued)**

Procedure	No	Yes
(9) 61P-W251		
(10) 61P-F001B		
(11) Doors 10L, 14R, 502, 504, 79L		
(12) Aircraft Wing Pylon SUU-63( )		
(13) Jumper wire (61P-W251) .....	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 2. Harpoon Weapon Station 3 115vac Power Control Fail**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 3 Power Control Schematic, AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP028 00, WP054 00, and WP053 00) may be used as aids when doing this procedure.	
For component locations, refer to WP007 00.	
Memory inspect data used in this procedure is provided in WP010 19.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Harpoon Jumper Cable W56236 Left Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) No. 7 Circuit Breaker/Relay Panel Assembly <div>2</div> No. 11 Relay Panel Assembly Simulator Test Set TS-3519D/DSM	

Table 2. Harpoon Weapon Station 3 115vac Power Control Fail (Continued)


Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p style="padding-left: 40px;">52P-C057E</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	r
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.		
(4) Connect jumper wire between 61P-W251 pin 8 (Harpoon Ident) and pin 4 (28vdc).		
(5) Close BRU-32 FWD and AFT hooks.		
(6) Turn electrical power on (A1-F18AC-LMM-000).		
(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(9) On RDDI:		
(a) Press MENU pushbutton switch.		
(b) Press STORES pushbutton switch.		

Table 2. Harpoon Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 3? .....	c	d
c. Do table 2, WP029 09 .....	-	-
d. Memory inspect station 3 (weapon) power control (CORESV+4/BIT 13) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXXX6? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between 61P-W251 pins 28, 29, 30, and pin 31 (aircraft ground)? .....	h	g
g. Replace test set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(4) Does continuity exist between:		
61P-W093 pins 56/67 and 61P-W251 pin 28		
61P-W093 pins 77/78 and 61P-W251 pin 29		
61P-W093 pins 86/87 and 61P-W251 pin 30		
61P-W093 pins 9/68 and 61P-W251 pin 14/15/31? .....	i	j
i. Replace Harpoon jumper cable W56236 (A1-F18AE-LWS-000). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		

Table 2. Harpoon Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.</p> <p>(4) Does continuity exist between:</p> <p><input type="checkbox"/> 1 52P-C057C pin p or <input type="checkbox"/> 2 52P-U045C pin f and 61P-W251 pin 28</p> <p><input type="checkbox"/> 1 52P-C057C pin n or <input type="checkbox"/> 2 52P-U045C pin T and 61P-W251 pin 29</p> <p><input type="checkbox"/> 1 52P-C057C pin m or <input type="checkbox"/> 2 52P-U045C pin U and 61P-W251 pin 30</p> <p>Aircraft ground and 61P-W251 pin 31? .....</p>	k	n
k. Do substeps below:		
<p>(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist between:</p> <p>52J-U063 pin 95 and <input type="checkbox"/> 1 52P-C057C pin p or <input type="checkbox"/> 2 52P-U045C pin f</p> <p>52J-U063 pin 96 and <input type="checkbox"/> 1 52P-C057C pin n or <input type="checkbox"/> 2 52P-U045C pin T</p> <p>52J-U063 pin 97 and <input type="checkbox"/> 1 52P-C057C pin m or <input type="checkbox"/> 2 52P-U045C pin U</p> <p>52J-U063 pins 82/87 and aircraft ground? .....</p>	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
<p>(1) Disconnect <input type="checkbox"/> 1 52P-C057E from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045B from no. 11 relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s and pin 86 (aircraft ground)? .....</p>	o	p
o. Do substeps below:		
<p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 122 and <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s? .....</p>	l	e

Table 2. Harpoon Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>p. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p><input type="checkbox"/> (4) Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.</p> <p>(5) Does continuity exist between 61P-F001B pin 23 and <input type="checkbox"/> 52P-C057F pin 12 or <input type="checkbox"/> 52P-U045B pin d? .....</p>	l	<input type="checkbox"/> s or <input type="checkbox"/> q
<p>q. <input type="checkbox"/> Do substeps below:</p> <p>(1) Disconnect 52P-U045A.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) Does 115vac exists between 52P-U045A pins d, c, f and aircraft ground? .....</p>	r	t
<p>r. <input type="checkbox"/> Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p> <p>(4) Does continuity exists between:</p> <p>52P-C057C pin p and 52P-U045A pin d</p> <p>52P-C057C pin n and 52P-U045A pin c</p> <p>52P-C057C pin m and 52P-U045A pin f? .....</p>	l	s
<p>s. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, station 3 power control relay (61K-C123), and ARM STA 3 circuit breakers (61CBC060, 61CBC061, 61CBC062) (A1-F18AC-420-300, WP027 00). Do step ad .....</p>	-	-
<p>t. <input type="checkbox"/> Isolate malfunction between no. 11 relay panel assembly wiring and station 3 power control relay (61K-U123) (A1-F18AC-420-300, WP043 00). Do step ad .....</p>	-	-
<p>u. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p>		

Table 2. Harpoon Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 3? .....</p>	y	v
v. Do substeps below.		
<p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012D from encoder-decoder.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(6) Does 28vdc exist between 61P-W012D pin C (Harpoon Ident) and aircraft ground? .....</p>	w	x
w. Replace Left Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
<p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.</p> <p>(3) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(5) Does 28vdc exist between 61P-W012D pin C (Harpoon Ident) and aircraft ground? .....</p>	i	m
y. Memory inspect station 3 (weapon) power control (CORESV+4/BIT 13) by doing substeps below:		

Table 2. Harpoon Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXXX6? .....	z	e
z. Does 115vac exist between 61P-W251 pins 28, 29, 30, and pin 31 (aircraft ground)? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(4) On Harpoon jumper cable W56236, does continuity exist between:		
61P-W093 pins 56/67 and 61P-W251 pin 28		
61P-W093 pins 77/78 and 61P-W251 pin 29		
61P-W093 pins 86/87 and 61P-W251 pin 30? .....	i	ab
ab. Do substeps below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist between 52J-U063 pins 95, 96, 97, and pin 87 (aircraft ground)? .....	m	ac
ac. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		

Table 2. Harpoon Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045A from no. 11 relay panel assembly.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p> <p>(4) Does continuity exist between:</p> <p><input type="checkbox"/> 1 52P-C057C pin p or <input type="checkbox"/> 2 52P-U045C pin d and 52J-U063 pin 95</p> <p><input type="checkbox"/> 1 52P-C057C pin n or <input type="checkbox"/> 2 52P-U045C pin c and 52J-U063 pin 96</p> <p><input type="checkbox"/> 1 52P-C057C pin m or <input type="checkbox"/> 2 52P-U045C pin f and 52J-U063 pin 97? .....</p> <p>ad. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.</p> <p>(1) 52P-C057C</p> <p><input type="checkbox"/> 1 (2) 52P-C057E</p> <p><input type="checkbox"/> 1 (3) 52P-C057F</p> <p><input type="checkbox"/> 2 (4) 52P-U045A</p> <p><input type="checkbox"/> 2 (5) 52P-U045B</p> <p><input type="checkbox"/> 2 (6) 52P-U045C</p> <p>(7) 61P-W093</p> <p>(8) 61P-W012D</p> <p>(9) 61P-W251</p> <p>(10) 61P-F001B</p> <p>(11) Doors 10L, 14R, 502, 504, 79L</p> <p>(12) Aircraft Wing Pylon SUU-63( )</p> <p>(13) Jumper wire (61P-W251) .....</p>	l	t
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-84 HARPOON WEAPON STATION POWER CONTROL, PART 2

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Harpoon Weapon Station 7 115vac Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

Table 1. Harpoon Weapon Station 7 115vac Power Control Fail (Continued)

Materials Required		
None		
<b>NOTE</b>		
<p>Weapon Station 7 Power Control Schematic AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP032 00, WP054 00 and WP053 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  Harpoon Jumper Cable W56236  No. 2 Circuit Breaker Panel Assembly  No. 2 Relay Panel Assembly  Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  Simulator Test Set TS-3519D/DSM</p>		
<div style="border: 1px solid black; padding: 2px; display: inline-block;">2</div> No. 10 Relay Panel Assembly		
Procedure	No	Yes
<div style="text-align: center; border: 2px solid black; padding: 5px; margin: 10px auto; width: 100px;">CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		

**Table 1. Harpoon Weapon Station 7 115vac Power Control Fail (Continued)**

Procedure	No	Yes
<p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</p> <p>(4) Connect jumper wire between 61P-W251 pin 8 (Harpoon Ident) and pin 4 (28vdc).</p> <p>(5) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(6) Close BRU-32 FWD and AFT hooks.</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(9) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 HPD/THPD symbol on stores display for station 7? .....</p> <p>c. Do table 3, WP029 09 .....</p> <p>d. Memory inspect station 7 (weapon) power control (CORESV+2/BIT 13) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).</p>	c	d
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXXX5? .....	e	f

Table 1. Harpoon Weapon Station 7 115vac Power Control Fail (Continued)

Procedure	No	Yes
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between 61P-W251 pins 28, 29, 30, and pin 31 (aircraft ground)? .....	h	g
g. Replace test set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(4) Does continuity exist between:		
61P-W093 pins 56/67 and 61P-W251 pin 28		
61P-W093 pins 77/78 and 61P-W251 pin 29		
61P-W093 pins 86/87 and 61P-W251 pin 30		
61P-W093 pins 9/68 and 61P-W251 pins 14/15/31? .....	i	j
i. Replace Harpoon jumper cable W56236 (A1-F18AE-LWS-000) Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.		
(4) Does continuity exist between:		
<input type="checkbox"/> 1 52P-F058D pin J or <input type="checkbox"/> 2 52P-V044C pin f and 61P-W251 pin 28		
<input type="checkbox"/> 1 52P-F058D pin K or <input type="checkbox"/> 2 52P-V044C pin T and 61P-W251 pin 29		
<input type="checkbox"/> 1 52P-F058D pin L or <input type="checkbox"/> 2 52P-V044C pin U and 61P-W251 pin 30		
Aircraft ground and 61P-W251 pin 31? .....	k	n
k. Do substeps below:		
(1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		

Table 1. Harpoon Weapon Station 7 115vac Power Control Fail (Continued)

Procedure	No	Yes
52J-V067 pin 95 and <input type="checkbox"/> 1 52P-F058D pin J or <input type="checkbox"/> 2 52P-V044C pin f 52J-V067 pin 96 and <input type="checkbox"/> 1 52P-F058D pin K or <input type="checkbox"/> 2 52P-V044C pin T 52J-V067 pin 97 and <input type="checkbox"/> 1 52P-F058D pin L or <input type="checkbox"/> 2 52P-V044C pin U 52J-V067 pin 87 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 1 52P-F058C from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044B from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s and aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 24 and <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 18 and <input type="checkbox"/> 1 52P-F058C pin 49 or <input type="checkbox"/> 2 52P-V044B pin d? .....	l	q
q. Do substeps below:		

**Table 1. Harpoon Weapon Station 7 115vac Power Control Fail (Continued)**

Procedure	No	Yes
<p>2 (1) Disconnect 52P-V044A from no. 2 relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) Does 115vac exist between 1 52P-F058D pins F, G, H or 2 52P-V044A pins d, c, and f and aircraft ground? .....</p>	r	t
<p>r. Do substeps below:</p> <p>(1) Open door 10R (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 52P-D024C from no. 2 circuit breaker panel.</p> <p>(3) Does continuity exist between:</p> <p>52P-D024C pin u and 1 52P-F058D pin F or 2 52P-V044A pin d  52P-D024C pin g and 1 52P-F058D pin G or 2 52P-V044A pin c  52P-D024C pin w and 1 52P-F058D pin H or 2 52P-V044A pin f? .....</p>	l	s
<p>s. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 7 circuit breakers (61CBD076, 61CBD077, and 61CBD078) (A1-F18AC-420-300, WP024 00). Do step ad .....</p>	-	-
<p>t. 1 Isolate malfunction between no. 2 relay panel assembly wiring and station 7 power control relay (61K-F127) (A1-F18AC-420-300, WP032 00). Do step ad .....</p>	-	-
<p>2 Isolate malfunction between no. 10 relay panel assembly wiring and ARM STA 7 circuit breakers (61CBD076, 61CBD077, and 61CBD078) (A1-F18AC-420-300, WP024 00). Do step ad .....</p>	-	-
<p>u. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p>		

Table 1. Harpoon Weapon Station 7 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 7? .....</p>	y	v
<p>v. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012D from encoder-decoder.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(6) Does 28vdc exist between 61P-W012D pin C (Harpoon Ident) and aircraft ground? .....</p>	w	x
<p>w. Replace Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....</p>	-	-
<p>x. Do substeps below:</p> <p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.</p> <p>(3) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(5) Does 28vdc exist between 61P-W012D pin C (Harpoon Ident) and aircraft ground? .....</p>	i	m
<p>y. Memory inspect station 7 (weapon) power control (CORESV+2/BIT 13) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).</p>		

Table 1. Harpoon Weapon Station 7 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXXX5? .....	z	e
z. Does 115vac exist between 61P-W251 pins 28, 29, 30, and pin 31 (aircraft ground)? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(4) On Harpoon jumper cable W56236, does continuity exist between:		
61P-W093 pins 56/67 and 61P-W251 pin 28		
61P-W093 pins 77/78 and 61P-W251 pin 29		
61P-W093 pins 86/87 and 61P-W251 pin 30? .....	i	ab
ab. Do substeps below:		
(1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist between 52J-V067 pins 95, 96, 97 and aircraft ground? .....	m	ac
ac. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		



Table 1. Harpoon Weapon Station 7 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044A from no. 10 relay panel assembly.</p> <p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Bent/recessed pins in connectors are a common cause of stray voltage.</p> <p>(4) Does continuity exist between:</p> <p><input type="checkbox"/> 1 52P-F058D pin J or <input type="checkbox"/> 2 52P-V044A pin d and 52J-V067 pin 95</p> <p><input type="checkbox"/> 1 52P-F058D pin K or <input type="checkbox"/> 2 52P-V044A pin c and 52J-V067 pin 96</p> <p><input type="checkbox"/> 1 52P-F058D pin L or <input type="checkbox"/> 2 52P-V044A pin f and 52J-V067 pin 97? .....</p> <p>ad. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.</p> <p>(1) 52P-D024C</p> <p><input type="checkbox"/> 1 (2) 52P-F058C</p> <p><input type="checkbox"/> 1 (3) 52P-F058D</p> <p><input type="checkbox"/> 2 (4) 52P-V044A</p> <p><input type="checkbox"/> 2 (5) 52P-V044B</p> <p><input type="checkbox"/> 2 (6) 52P-V044C</p> <p>(7) 61P-W093</p> <p>(8) 61P-W012D</p> <p>(9) 61P-W251</p> <p>(10) 61P-F001B</p> <p>(11) Doors 10R, 14R, 502, 504, 79R</p> <p>(12) Aircraft Wing Pylon SUU-63( )</p> <p>(13) Jumper wire (61P-W251) .....</p>	l	t
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 2. Harpoon Weapon Station 8 115vac Power Control Fail**


<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 8 Power Control Schematic AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP033 00, WP054 00, and WP053 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Armament Computer CP-1342/AYQ-9(V)</li> <li>Harpoon Jumper Cable W56236</li> <li>No. 2 Circuit Breaker Panel Assembly</li> <li>No. 2 Relay Panel Assembly</li> <li>Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> <li>Simulator Test Set TS-3519D/DSM</li> <li><input type="checkbox"/> No. 10 Relay Panel Assembly</li> </ul>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
 <p style="margin-top: 20px;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

Table 2. Harpoon Weapon Station 8 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.		
(4) Connect jumper wire between 61P-W251 pin 8 (Harpoon Ident) and pin 4 (28vdc).		
(5) Close BRU-32 FWD and AFT hooks.		
(6) Turn electrical power on (A1-F18AC-LMM-000).		
(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(9) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 1 HPD/THPD symbol on stores display for station 8? .....	c	d
c. Do table 4, WP029 09 .....	-	-
d. Memory inspect station 8 (weapon) power control <input type="checkbox"/> (CORESV+6/BIT 11) or <input type="checkbox"/> (CORESV+8/BIT 12) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code <input type="checkbox"/> CORESV+6 or <input type="checkbox"/> CORESV+8 (table 2, WP010 19).		

Table 2. Harpoon Weapon Station 8 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display <input type="checkbox"/> 1 XXXX2X or <input type="checkbox"/> 2 XXXX1X? . . . . .	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad . . . . .	-	-
f. Does 115vac exist between 61P-W251 pins 28, 29, 30, and pin 31 (aircraft ground)? . . . . .	h	g
g. Replace test set. Do step ad . . . . .	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(4) Does continuity exist between:		
61P-W093 pins 56/67 and 61P-W251 pin 28		
61P-W093 pins 77/78 and 61P-W251 pin 29		
61P-W093 pins 86/87 and 61P-W251 pin 30		
61P-W093 pins 9/68 and 61P-W251 pins 14/15/31? . . . . .	i	j
i. Replace Harpoon jumper cable W56236 (A1-F18AE-LWS-000) Do step ad . . . . .	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.		
(4) Does continuity exist between:		

Table 2. Harpoon Weapon Station 8 115vac Power Control Fail (Continued)

Procedure	No	Yes
<input type="checkbox"/> 52P-F058D pin C or <input type="checkbox"/> 52P-V044C pin e and 61P-W251 pin 28 <input type="checkbox"/> 52P-F058D pin D or <input type="checkbox"/> 52P-V044C pin d and 61P-W251 pin 29 <input type="checkbox"/> 52P-F058D pin E or <input type="checkbox"/> 52P-V044C pin c and 61P-W251 pin 30 Aircraft ground and 61P-W251 pin 31? .....	k	n
k. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP03400).		
(2) Does continuity exist between:		
52J-V068 pin 95 and <input type="checkbox"/> 52P-F058D pin C or <input type="checkbox"/> 52P-V044C pin e		
52J-V068 pin 96 and <input type="checkbox"/> 52P-F058D pin D or <input type="checkbox"/> 52P-V044C pin d		
52J-V068 pin 97 and <input type="checkbox"/> 52P-F058D pin E or <input type="checkbox"/> 52P-V044C pin c		
52J-V068 pin 87 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP03400). Do step ad .....	-	-
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 52P-F058C from no. 2 relay panel assembly or <input type="checkbox"/> 52P-V044B from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 52P-F058C pin 38 or <input type="checkbox"/> 52P-V044B pin s aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 24 and <input type="checkbox"/> 52P-F058C pin 38 or <input type="checkbox"/> 52P-V044B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		

Table 2. Harpoon Weapon Station 8 115vac Power Control Fail (Continued)

Procedure	No	Yes
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 28 and <input type="checkbox"/> 52P-F058C pin 73 or <input type="checkbox"/> 52P-V044B pin e? .....	l	q
q. Do substeps below:		
<input type="checkbox"/> (1) Disconnect 52P-V044A from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist between <input type="checkbox"/> 52P-F058D pin S, A, B or <input type="checkbox"/> 52P-V044A pin S, A, B and aircraft ground? .....	r	t
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		
(4) Does continuity exist between:		
52P-D024C pin p and <input type="checkbox"/> 52P-F058D pin S or <input type="checkbox"/> 52P-V044A pin A		
52P-D024C pin a and <input type="checkbox"/> 52P-F058D pin A or <input type="checkbox"/> 52P-V044A pin B		
52P-D024C pin b and <input type="checkbox"/> 52P-F058D pin B or <input type="checkbox"/> 52P-V044A pin S? .....	l	s
s. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 8 circuit breakers (61CBD080, 61CBD081, and 61CBD082) (A1-F18AC-420-300, WP024 00). Do step ad .....	-	-
t. <input type="checkbox"/> Isolate malfunction between no. 2 relay panel assembly wiring and station 8 power control relay (61K-F128) (A1-F18AC-420-300, WP032 00). Do substep ad .....	-	-
<input type="checkbox"/> Isolate malfunction between no. 10 relay panel assembly wiring and station 8 power control relay (61K-V128) (A1-F18AC-420-300, WP042 00). Do step ad .....	-	-
u. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		

Table 2. Harpoon Weapon Station 8 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Does RDDI display <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 1 HPD/THPD symbol for stores display at station 8? .....</p>	y	v
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Turn electrical power on (A1-F18AC-LMM-000)		
(5) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(6) Does 28vdc exist between 61P-W012D pin C (Harpoon Ident) and aircraft ground? .....	w	x
w. Replace Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Turn electrical power on (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(5) Does 28vdc exist between 61P-W012D pin C (Harpoon Ident) and aircraft ground? .....	i	m
y. Memory inspect station 8 (weapon) power control <input type="checkbox"/> (CORESV+6/BIT 11) or <input type="checkbox"/> (CORESV+8/BIT 13) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code <input type="checkbox"/> CORESV+6 or <input type="checkbox"/> CORESV+8 (table 2, WP010 19).		

Table 2. Harpoon Weapon Station 8 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX2X? .....	z	e
z. Does 115vac exist between 61P-W251 pins 28, 29, 30 and pin 31 (aircraft ground)? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(4) On Harpoon jumper cable W56236, does continuity exist between:		
61P-W093 pins 56/67 and 61P-W251 pin 28		
61P-W093 pins 77/78 and 61P-W251 pin 29		
61P-W093 pins 86/87 and 61P-W251 pin 30? .....	i	ab
ab. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist between 52J-V068 pins 95, 96, 97, and pin 87 (aircraft ground)? .....	m	ac
ac. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		



Table 2. Harpoon Weapon Station 8 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044A from no. 10 relay panel assembly.</p> <p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Bent/recessed pins in connectors are a common cause of stray voltage.</p> <p>(4) Does continuity exist between:</p> <p><input type="checkbox"/> 1 52P-F058D pin C or <input type="checkbox"/> 2 52J-V044A pin e and 52J-V068 pin 95</p> <p><input type="checkbox"/> 1 52P-F058D pin D or <input type="checkbox"/> 2 52J-V044A pin d and 52J-V068 pin 96</p> <p><input type="checkbox"/> 1 52P-F058D pin E or <input type="checkbox"/> 2 52J-V044A pin c and 52J-V068 pin 97? .....</p> <p>ad. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed.</p> <p>(1) 52P-D024C</p> <p><input type="checkbox"/> 1 (2) 52P-F058C</p> <p><input type="checkbox"/> 1 (3) 52P-F058D</p> <p><input type="checkbox"/> 2 (4) 52P-V044A</p> <p><input type="checkbox"/> 2 (5) 52P-V044B</p> <p><input type="checkbox"/> 2 (6) 52P-V044C</p> <p>(7) 61P-W093</p> <p>(8) 61P-W012D</p> <p>(9) 61P-W251</p> <p>(10) 61P-F001B</p> <p>(11) Doors 10R, 14R, 502, 504, 79R</p> <p>(12) Aircraft Wing Pylon SUU-63( )</p> <p>(13) Jumper wire (61P-W251) .....</p>	l	t
	-	-
<b>LEGEND</b>		
<p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-84 HARPOON WEAPON STATION POWER CONTROL, PART 3

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74

## Reference Material

Airborne Weapons/Stores Loading ..... A1-F18AE-LWS-000  
 Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010  
 Weapon Control Systems ..... A1-F18AC-740-200  
 Memory Inspect Data ..... WP010 19

## Alphabetical Index

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Harpoon Weapon Station 2  $\phi$ C Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
74D420030-1001	Proximity Switch Control

**Table 1. Harpoon Weapon Station 2  $\phi$ C Power Control Fail (Continued)**


<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 2 Power Control Schematic, AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP027 00, WP054 00 and WP053 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Armament Computer CP-1342/AYQ-9(V)</li> <li>Harpoon Jumper Cable W56236</li> <li>Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> <li>No. 7 Circuit Breaker/Relay Panel Assembly</li> <li>Simulator Test Set TS-3519D/DSM</li> </ul>		
2	No. 11 Relay Panel Assembly	
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
 <p style="margin-top: 20px;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <div style="margin-top: 10px;"> <span style="border: 1px solid black; padding: 2px 5px;">1</span> 52P-C057E         </div> <p style="text-align: center; margin-top: 20px;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac $\phi$ C existing when it should be off? .....	b	u

Table 1. Harpoon Weapon Station 2  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
b. Do substeps below: <ol style="list-style-type: none"> <li>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</li> <li>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</li> <li>(4) Connect jumper wire between 61P-W251 pin 8 (Harpoon Ident) and pin 4 (28vdc).</li> <li>(5) Close BRU-32 FWD and AFT hooks.</li> </ol> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;"> <b>WARNING</b> </div> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> <ol style="list-style-type: none"> <li>(6) Connect proximity switch control (A1-F18AC-LMM-000).</li> <li>(7) Turn electrical power on (A1-F18AC-LMM-000).</li> <li>(8) On proximity switch control, set LEFT GEAR switch to WEIGHT OFF WHEELS.</li> <li>(9) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</li> <li>(10) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</li> <li>(11) On RDDI: <ol style="list-style-type: none"> <li>(a) Press and release MENU pushbutton switch until STORES option is displayed.</li> <li>(b) Press STORES pushbutton switch.</li> <li>(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 2? .....</li> </ol> </li> </ol>		
c. Do table 1, WP029 09 .....	-	-
d. Memory inspect station 2 $\phi$ C power control (CORESV+4/BIT 2) by doing substeps below: <ol style="list-style-type: none"> <li>(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).</li> </ol>		

Table 1. Harpoon Weapon Station 2  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display X2XXXX? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between 61P-W251 pins 12/13 and pin 31 (115vac return)? .....	h	g
g. Replace test set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(4) Does continuity exist between:		
61P-W093 pins 48/58 and 61P-W251 pins 12/13		
61P-W093 pins 9/68 and 61P-W251 pins 14/15/31? .....	i	j
i. Replace Harpoon Jumper Cable W56236 (A1-F18AE-LWS-000). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.		
(4) Does continuity exist between:		
61P-W251 pins 12/13 and <input type="checkbox"/> 1 52P-C057C pin W or <input type="checkbox"/> 2 52P-U045C pin Y		
61P-W251 pins 14/15/31 and aircraft ground? .....	k	n

Table 1. Harpoon Weapon Station 2  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
k. Do substeps below		
(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-U062 pins 70/83 and <input type="checkbox"/> 1 52P-C057C pin W or <input type="checkbox"/> 2 52P-U045C pin Y		
52J-U062 pins 82/87 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 1 52P-C057E from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s and aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
<input type="checkbox"/> 1 (4) Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.		
(5) Does continuity exist between 61P-F001B pin 27 and <input type="checkbox"/> 1 52P-C057F pin 22 or <input type="checkbox"/> 2 52P-U045B pin r? .....	l	<input type="checkbox"/> 1 t or <input type="checkbox"/> 2 q

Table 1. Harpoon Weapon Station 2  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p>q. <input type="checkbox"/> 2 Do substeps below:</p> <p>(1) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(2) Does 115vac exists from 52P-U045A pin S to aircraft ground? .....</p>	r	s
<p>r. <input type="checkbox"/> 2 Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p> <p>(4) Does continuity exists between 52P-C057C pin s and 52P-V044A S? .....</p>	l	t
<p>s. <input type="checkbox"/> 2 Isolate malfunction between no. 11 relay panel assembly wiring and STA 2 <math>\phi</math>C power control relay (61K-U132) (A1-F18AC-420-300, WP043 00). Do step ad .....</p>	-	-
<p>t. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, <input type="checkbox"/> 1 station 2 <math>\phi</math>C power control relay (61K-C132), and ARM STA 2 circuit breaker (61CBC058) (A1-F18AC-420-300, WP027 00). Do step ad .....</p>	-	-
<p>u. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W251 (Harpoon Jumper Cable W56236) from test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is <input type="checkbox"/> 1 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 2? .....</p>	y	v



Table 1. Harpoon Weapon Station 2  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(6) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	w	x
w. Replace Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Turn electrical power on (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(5) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	i	m
y. Memory inspect station 2 $\phi$ C power control (CORESV+4/BIT 2) by doing the substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display X2XXXX? .....	z	e

Table 1. Harpoon Weapon Station 2  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
z. Does 115vac exist between 61P-W251 pins 12/13 and aircraft ground? .....  aa. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) On pylon, open door 502 (A1-F18AC-LMM-010).  (3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.	g	aa
<b>NOTE</b>  Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) On Harpoon jumper cable W56236, does continuity exist between 61P-W093 pins 48/58 and 61P-W251 pins 12/13? .....  ab. Do substeps below:  (1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) Does 115vac exist between 52J-U062 pins 70/83 and aircraft ground? .....	i	ab
ac. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).  (3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.	m	ac
<b>NOTE</b>  Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) Does continuity exist between <input type="checkbox"/> 1 52P-C057C pin W or <input type="checkbox"/> 2 52P-U045C pin Y and 52J-U062 pins 70/83? .....  ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.	l	<input type="checkbox"/> 1 t or <input type="checkbox"/> 2 s

Table 1. Harpoon Weapon Station 2  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
(1) 52P-C057C		
<input type="checkbox"/> (2) 52P-C057E		
<input type="checkbox"/> (3) 52P-C057F		
<input type="checkbox"/> (4) 52P-V045A		
<input type="checkbox"/> (5) 52P-V045B		
<input type="checkbox"/> (6) 52P-V045C		
(7) 61P-W012D		
(8) 61P-W093		
(9) 61P-W251		
(10) 61P-F001B		
(11) Doors 10L, 14R, 502, 504, 79L		
(12) Jumper wire (61P-W251)		
(13) Proximity switch control		
(14) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 2. Harpoon Weapon Station 3  $\phi$ C Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
74D420030-1001	Proximity Switch Control

**Table 2. Harpoon Weapon Station 3  $\phi$ C Power Control Fail (Continued)**

<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 3 Power Control Schematic, AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP028 00, WP054 00 and WP053 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  Harpoon Jumper Cable W56236  Left Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  No. 7 Circuit Breaker/Relay Panel Assembly  Simulator Test Set TS-3519D/DSM  2 No. 11 Relay Panel Assembly</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center;"><b>CAUTION</b></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p>52P-C057E</p> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		

**Table 2. Harpoon Weapon Station 3  $\phi$ C Power Control Fail (Continued)**

Procedure	No	Yes
<p>a. Is troubleshooting being done for 115vac <math>\phi</math>C existing when it should be off? .....</p> <p>b. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</p> <p>(4) Connect jumper wire between 61P-W251 pin 8 (Harpoon Ident) and pin 4 (28vdc).</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p>	b	u
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: fit-content;"> <b>WARNING</b> </div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>(6) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(7) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(8) On proximity switch control, set LEFT GEAR switch to WEIGHT OFF WHEELS.</p> <p>(9) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(10) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(11) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 8? .....</p>	c	d
c. Do table 2, WP029 09 .....	-	-
<p>d. Memory inspect station 3 <math>\phi</math>C power control (CORESV+4/BIT 10) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).</p>		

Table 2. Harpoon Weapon Station 3  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX4X? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between 61P-W251 pins 12/13 and pin 31 (115vac return)? .....	h	g
g. Replace test set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(4) Does continuity exist between:		
61P-W093 pins 48/58 and 61P-W251 pins 12/13		
61P-W093 pins 9/68 and 61P-W251 pins 14/15/31? .....	i	j
i. Replace Harpoon jumper cable W56236 (A1-F18AE-LWS-000). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.		
(4) Does continuity exist between:		
61P-W251 pins 12/13 and <input type="checkbox"/> 1 52P-C057C pin T or <input type="checkbox"/> 2 52P-U045C pin Z		
61P-W251 pins 14/15/31 and aircraft ground? .....	k	n

Table 2. Harpoon Weapon Station 3  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
k. Do substeps below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-U063 pins 70/83 and <input type="checkbox"/> 1 52P-C057C pin T or <input type="checkbox"/> 2 52P-V045C pin z		
52J-U063 pins 82/87 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 1 52P-C057E from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045B from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
<input type="checkbox"/> 1 (4) Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.		
(5) Does continuity exist between 61P-F001B pin 25 and <input type="checkbox"/> 1 52P-C057F pin 13 or <input type="checkbox"/> 2 52P-U045B pin KK? .....	l	<input type="checkbox"/> 1 t or <input type="checkbox"/> 2 q

Table 2. Harpoon Weapon Station 3  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p>q. <input type="checkbox"/> 2 Do substeps below:</p> <p>(1) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(2) Does 115vac exists from 52P-U045A pin f to aircraft ground? .....</p>	r	s
<p>r. <input type="checkbox"/> 2 Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p> <p>(4) Does continuity exists between 52P-C057C pin m and 52P-V044A f? .....</p>	l	t
<p>s. <input type="checkbox"/> 2 Isolate malfunction between no. 11 relay panel assembly wiring and STA 3 <math>\phi</math>C power control relay (61K-U133) (A1-F18AC-420-300, WP043 00). Do step ad .....</p>	-	-
<p>t. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, <input type="checkbox"/> 1 station 3 <math>\phi</math>C power control relay (61K-C133), and ARM STA 3 circuit breaker (61CBC062) (A1-F18AC-420-300, WP027 00). Do step ad .....</p>	-	-
<p>u. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is <input type="checkbox"/> 1 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 3? .....</p>	y	v



**Table 2. Harpoon Weapon Station 3  $\phi$ C Power Control Fail (Continued)**

Procedure	No	Yes
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(6) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	w	x
w. Replace Left Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Turn electrical power on (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(5) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	i	m
y. Memory inspect station 3 $\phi$ C power control (CORESV+4/BIT 10) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX4X? .....	z	e

Table 2. Harpoon Weapon Station 3  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
z. Does 115vac exist between 61P-W251 pins 12/13 and aircraft ground? .....  aa. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) On pylon, open door 502 (A1-F18AC-LMM-010).  (3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.	g	aa
<b>NOTE</b>  Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) On Harpoon jumper cable W56236, does continuity exist between 61P-W093 pins 48/58 and 61P-W251 pins 12/13? .....  ab. Do substeps below:  (1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) Does 115vac exist between 52J-U063 pins 70/83 and aircraft ground? .....	i	ab
ac. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).  (3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.	m	ac
<b>NOTE</b>  Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) Does continuity exist between <input type="checkbox"/> 1 52P-C057C pin T or <input type="checkbox"/> 2 52P-U045C pin z and 52J-U063 pins 70/83? .....  ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.	l	<input type="checkbox"/> 1 t or <input type="checkbox"/> 2 s

**Table 2. Harpoon Weapon Station 3  $\phi$ C Power Control Fail (Continued)**

Procedure	No	Yes
(1) 52P-C057C		
<input type="checkbox"/> (2) 52P-C057E		
<input type="checkbox"/> (3) 52P-C057F		
<input type="checkbox"/> (4) 52P-V045A		
<input type="checkbox"/> (5) 52P-V045B		
<input type="checkbox"/> (6) 52P-V045C		
(7) 61P-W012D		
(8) 61P-W093		
(9) 61P-W251		
(10) 61P-F001B		
(11) Doors 10L, 14R, 502, 504, 79L		
(12) Jumper wire (61P-W251)		
(13) Proximity switch control		
(14) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-84 HARPOON WEAPON STATION POWER CONTROL, PART 4

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

## Alphabetical Index

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Harpoon Weapon Station 7  $\phi$ C Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
74D420030-1001	Proximity Switch Control

**Table 1. Harpoon Weapon Station 7  $\phi$ C Power Control Fail (Continued)**

Materials Required		
None		
<b>NOTE</b>		
<p>Weapon Station 7 Power Control Schematic, AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP032 00, WP054 00 and WP053 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  Harpoon Jumper Cable W56236  No. 2 Circuit Breaker Panel Assembly  <input type="checkbox"/> No. 2 Relay Panel Assembly  Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  Simulator Test Set TS-3519D/DSM  <input type="checkbox"/> No. 10 Relay Panel Assembly</p>		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Is troubleshooting being done for 115vac <math>\phi</math>C existing when it should be off? .....</p> <p>b. Do substeps below:</p>		
	b	u

**Table 1. Harpoon Weapon Station 7  $\phi$ C Power Control Fail (Continued)**

Procedure	No	Yes
(1) Make sure electrical power is off (A1-F18AC-LMM-000). (2) On pylon, open door 502 (A1-F18AC-LMM-010). (3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set. (4) Connect jumper wire between 61P-W251 pin 8 (Harpoon Ident) and pin 4 (28vdc). (5) Close BRU-32 FWD and AFT hooks.		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(6) Connect proximity switch control (A1-F18AC-LMM-000). (7) Turn electrical power on (A1-F18AC-LMM-000). (8) On proximity switch control, set LEFT GEAR switch to WEIGHT OFF WHEELS. (9) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. (10) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display. (11) On RDDI: <ul style="list-style-type: none"> <li>(a) Press and release MENU pushbutton switch until STORES option is displayed.</li> <li>(b) Press STORES pushbutton switch.</li> <li>(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 7? .....</li> </ul>	c	d
c. Do table 3, WP029 09 .....	-	-
d. Memory inspect station 7 $\phi$ C power control (CORESV+2/BIT 12) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		

Table 1. Harpoon Weapon Station 7  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX1X? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between 61P-W251 pins 12/13 and pin 31 (115vac return)? .....	h	g
g. Replace test set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(4) Does continuity exist between:		
61P-W093 pins 48/58 and 61P-W251 pins 12/13		
61P-W093 pins 9/68 and 61P-W251 pins 14/15/31? .....	i	J
i. Replace Harpoon jumper cable W56236 (A1-F18AE-LWS-000). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay assembly or <input type="checkbox"/> 2 52P-U044C from no. 10 relay panel assembly.		
(4) Does continuity exist between:		
61P-W251 pins 12/13 and <input type="checkbox"/> 1 52P-F058D pin N or <input type="checkbox"/> 2 52P-V044C pin Z		
61P-W251 pins 14/15/31 and aircraft ground? .....	k	n



Table 1. Harpoon Weapon Station 7  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
k. Do substeps below:		
(1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-V067 pins 70/83 and <input type="checkbox"/> 1 52P-F058D pin N or <input type="checkbox"/> 2 52P-V044C pin Z		
52J-V067 pins 82/87 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 1 52P-F058C from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044B from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s and pin 78 aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 24 and <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 16 and <input type="checkbox"/> 1 52P-F058C pin 27 or <input type="checkbox"/> 2 52P-V044B pin KK? .....	l	q

Table 1. Harpoon Weapon Station 7  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
q. Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) Does 115vac exist between <input type="checkbox"/> 1 52P-F058D pin H or <input type="checkbox"/> 2 52P-V044A pin f and aircraft ground? .....	r	s
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		
(4) Does continuity exist between 52P-D024C pin w and <input type="checkbox"/> 1 52P-F058D pin H or <input type="checkbox"/> 2 52P-V044A pin f? .....	l	t
s. <input type="checkbox"/> 1 Isolate malfunction between no. 2 relay panel assembly wiring and $\phi$ C power control relay (61K-F137) (A1-F18AC-420-300, WP032 00). Do step ad .....	-	-
<input type="checkbox"/> 2 Isolate malfunction between no. 10 relay panel assembly and station 7 $\phi$ C power control relay (61K-V137) (A1-F18AC-420-300, WP042 00). Do step ad .....	-	-
t. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 7 circuit breaker (61CBD078) (A1-F18AC-420-300, WP024 00). Do step ad .....	-	-
u. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(7) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is <input type="checkbox"/> 1 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 7? .....	y	v








**Table 1. Harpoon Weapon Station 7  $\phi$ C Power Control Fail (Continued)**

Procedure	No	Yes
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(6) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	w	x
w. Replace Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Turn electrical power on (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(5) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	i	m
y. Memory inspect station 7 $\phi$ C power control (CORESV+2/BIT 12) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX1X? .....	z	e

Table 1. Harpoon Weapon Station 7  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
z. Does 115vac exist between 61P-W251 pins 12/13 and aircraft ground? .....  aa. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) On pylon, open door 502 (A1-F18AC-LMM-010).  (3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.	g	aa
<b>NOTE</b>  Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) On Harpoon jumper cable W56236, does continuity exist between 61P-W093 pins 48/58 and 61P-W251 pins 12/13? .....  ab. Do substeps below:  (1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) Does 115vac exist between 52J-V067 pins 70/83 and aircraft ground? .....	i	ab
ac. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).  (3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.	m	ac
<b>NOTE</b>  Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) Does continuity exist between <input type="checkbox"/> 1 52P-F058D pin N or <input type="checkbox"/> 2 52P-V044C pin z and 52J-V067 pins 70/83? .....	l	s

Table 1. Harpoon Weapon Station 7  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.		
 (1) 52P-F058C		
 (2) 52P-F058D		
 (3) 52P-V044A		
 (4) 52P-V044B		
 (5) 52P-V044C		
(6) 52P-D024C		
(7) 61P-W012D		
(8) 61P-W093		
(9) 61P-W251		
(10) 61P-F001B		
(11) Doors 10R, 14R, 502, 504, 79R		
(12) Jumper wire (61P-W251)		
(13) Disconnect proximity switch control		
(14) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 2. Harpoon Weapon Station 8  $\phi$ C Power Control Fail**


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
74D420030-1001	Proximity Switch Control	
Materials Required		
None		
NOTE		
<p>Weapon Station 8 Power Control Schematic, AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP033 00, WP054 00 and WP053 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Armament Computer CP-1342/AYQ-9(V)</li> <li>Harpoon Jumper Cable W56236</li> <li>No. 2 Circuit Breaker Panel Assembly</li> <li><input type="checkbox"/> No. 2 Relay Panel Assembly</li> <li>Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> <li>Simulator Test Set TS-3519D/DSM</li> <li><input type="checkbox"/> No. 10 Relay Panel Assembly</li> </ul>		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

Table 2. Harpoon Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac $\phi$ C existing when it should be off? .....	b	u
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.		
(4) Connect jumper wire between 61P-W251 pin 8 (Harpoon Ident) and pin 4 (28vdc).		
(5) Close BRU-32 FWD and AFT hooks.		
<div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(6) Connect proximity switch control (A1-F18AC-LMM-000).		
(7) Turn electrical power on (A1-F18AC-LMM-000).		
(8) On proximity switch control, set LEFT GEAR switch to WEIGHT OFF WHEELS.		
(9) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(10) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(11) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES option is displayed.		

Table 2. Harpoon Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
(b) Press STORES pushbutton switch.		
(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 1 HPD/THPD symbol on stores display for station 8? .....	c	d
c. Do table 4, WP029 09 .....	-	-
d. Memory inspect station 8 $\phi$ C power control <input type="checkbox"/> (CORESV+6/BIT 10) or <input type="checkbox"/> (CORESV+8/BIT 13) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code <input type="checkbox"/> CORESV+6 or <input type="checkbox"/> CORESV+8 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display <input type="checkbox"/> XXXX4X or <input type="checkbox"/> XXXXX4? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between 61P-W251 pins 12/13 and pin 31 (115vac return)? .....	h	g
g. Replace test set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(4) Does continuity exist between:		
61P-W093 pins 48/58 and 61P-W251 pins 12/13		
61P-W093 pins 9/68 and 61P-W251 pins 14/15/31? .....	i	j
i. Replace Harpoon jumper cable W56236 (A1-F18AE-LWS-000). Do step ad .....	-	-
j. Do substeps below:		



Table 2. Harpoon Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p>(1) Connect 61P-W093 to AIR-AIR pylon disconnect.</p> <p>(2) Open door <input type="checkbox"/> 1 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.</p> <p>(4) Does continuity exist between:</p> <p>61P-W251 pins 12/13 and <input type="checkbox"/> 1 52P-F058D pin M or <input type="checkbox"/> 2 52P-V044C pin Y  61P-W251 pins 14/15/31 and aircraft ground? .....</p>	k	n
k. Do substeps below:		
<p>(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist between:</p> <p>52J-V068 pins 70/83 and 52P-F058D pin M  52J-V068 pins 82/87 and aircraft ground? .....</p>	1	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
<p>(1) Disconnect <input type="checkbox"/> 1 52P-F058C from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044B from no. 10 relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s and aircraft ground? .....</p>	o	p
o. Do substeps below:		
<p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 24 and <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s? .....</p>	l	e

Table 2. Harpoon Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p>p. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 29 and <input type="checkbox"/> 1 52P-F058C pin 101 or <input type="checkbox"/> 2 52P-V044B pin r? .....</p>	l	q
<p>q. Do substeps below:</p> <p>(1) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(2) Does 115vac exist between <input type="checkbox"/> 1 52P-F058D pin B or <input type="checkbox"/> 2 52P-V044A pin S and aircraft ground? .....</p>	r	s
<p>r. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-D024C from no. 2 circuit breaker panel assembly.</p> <p>(4) Does continuity exist between 52P-D024C pin b and <input type="checkbox"/> 1 52P-F058D pin B or <input type="checkbox"/> 2 52P-V044A pin s? .....</p>	l	t
<p>s. <input type="checkbox"/> 1 Isolate malfunction between no. 2 relay panel assembly wiring and station 8 <math>\phi</math>C power control relay (61K-F138) (A1-F18AC-420-300, WP032 00). Do step ad ...</p>	-	-
<p><input type="checkbox"/> 2 Isolate malfunction between no. 10 relay panel assembly wiring and station 8 <math>\phi</math>C power control relay (61K-V138) (A1-F18AC-420-300, WP042 00). Do step ad .....</p>	-	-
<p>t. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 8 circuit breaker (61CBD082) (A1-F18AC-420-300, WP024 00). Do step ad .....</p>	-	-
<p>u. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p>		

Table 2. Harpoon Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 8? .....</p>	y	v
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(6) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	w	x
w. Replace Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Turn electrical power on (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(5) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	i	m
y. Memory inspect station 8 $\phi$ C power control <input type="checkbox"/> 1 (CORESV+6/BIT 10) or <input type="checkbox"/> 2 (CORESV+8/BIT 13) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code <input type="checkbox"/> 1 CORESV+6 or <input type="checkbox"/> 2 CORESV+8 (table 2, WP010 19).		

Table 2. Harpoon Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display <input type="checkbox"/> 1 XXXX4X or <input type="checkbox"/> 2 XXXXX4? .....	z	e
z. Does 115vac exist between 61P-W251 pins 12/13 and aircraft ground? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(3) On Harpoon jumper cable W56236, does continuity exist between 61P-W093 pins 48/68 and 61P-W251 pins 12/13? .....	i	ab
ab. Do substeps below:		
(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist between 52J-V068 pins 70/83 and aircraft ground? .....	m	ac
ac. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.		

Table 2. Harpoon Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
<p>(4) Does continuity exist between <input type="checkbox"/> 1 52P-F058D pin M or <input type="checkbox"/> 2 52P-V044C pin Y and 52J-V068 pins 70/83? .....</p> <p>ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.</p> <p>(1) 52P-D024C</p> <p><input type="checkbox"/> 1 (2) 52P-F058C</p> <p><input type="checkbox"/> 1 (3) 52P-F058D</p> <p><input type="checkbox"/> 2 (4) 52P-V044A</p> <p><input type="checkbox"/> 2 (5) 52P-V044B</p> <p><input type="checkbox"/> 2 (6) 52P-V044C</p> <p>(7) 61P-W012D</p> <p>(8) 61P-W093</p> <p>(9) 61P-W251</p> <p>(10) 61P-F001B</p> <p>(11) Doors 10R, 14R, 502, 504, 79R</p> <p>(12) Jumper wire (61P-W251)</p> <p>(13) Disconnect proximity switch control</p> <p>(14) Aircraft Wing Pylon SUU-63( ) .....</p>	<p>1</p> <p>-</p>	<p>s</p> <p>-</p>
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-84 HARPOON WEAPON STATION POWER CONTROL, PART 5

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74

## Reference Material

Airborne Weapons/Stores Loading ..... A1-F18AE-LWS-000  
 Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010  
 Weapon Control Systems ..... A1-F18AC-740-200  
 Memory Inspect Data ..... WP010 19

## Alphabetical Index

## Subject

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Harpoon Weapon Station 2 28vdc Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 1. Harpoon Weapon Station 2 28vdc Power Control Fail (Continued)**

NOTE		
<p>Weapon Station 2 Power Control Schematic, AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP027 00, WP053 00 and WP054 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Aircraft Wiring</p> <p>Armament Computer CP-1342/AYQ-9(V)</p> <p>Harpoon Jumper Cable W56236</p> <p>Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p> <p>No. 7 Circuit Breaker/Relay Panel Assembly</p> <p>Simulator Test Set TS-3519D/DSM</p> <p><input type="checkbox"/> 2 No. 11 Relay Panel Assembly</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p><input type="checkbox"/> 1 52P-C057E</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a Is troubleshooting being done for 28vdc seeker standby power existing when it should be off? .....	b	u



Table 1. Harpoon Weapon Station 2 28vdc Power Control Fail (Continued)

Procedure	No	Yes
<p>b. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</p> <p>(4) Connect jumper wire between 61P-W251 pin 8 (Harpoon Ident) and pin 4 (28vdc).</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p> <p>(6) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.</p> <p>(9) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 2? .....</p>	c	d
c. Do table 1, WP029 09 .....	-	-
<p>d. Do substeps below:</p> <p>(1) On master arm control panel assembly, press A/G light switch to select A/G aircraft master mode.</p> <p>(2) Select HARPOON on stores display.</p> <p>(3) Memory inspect station 2 28vdc power control (CORESV+4/BIT 3) by doing substeps below:</p> <p>(a) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).</p>		

Table 1. Harpoon Weapon Station 2 28vdc Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(b) On RDDI, does DATA readout display X1XXXX? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 28vdc exist between 61P-W251 pin 11 and pin 32 (28vdc return)? .....	h	g
g. Replace test set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) Does continuity exist between:		
61P-W112 pins 40/51 and 61P-W251 pin 11		
61P-W112 pin 2 and 61P-W251 pin 32? .....	i	j
i. Replace Harpoon jumper cable W56236 (A1-F18AE-LWS-000). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.		
(4) Does continuity exist between:		
61P-W251 pins 11 and <input type="checkbox"/> 1 52P-C057C pin a or <input type="checkbox"/> 2 52P-U045C pin b		
61P-W251 pin 32 and aircraft ground? .....	k	n

Table 1. Harpoon Weapon Station 2 28vdc Power Control Fail (Continued)

Procedure	No	Yes
k. Do substeps below:		
(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-U062 pins 52/53 and <input type="checkbox"/> 52P-C057C pin a or <input type="checkbox"/> 52P-U045C pin b		
52J-U062 pin 93 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 52P-C057E from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 52P-U045B from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 52P-C057E pin 71 or <input type="checkbox"/> 52P-U045B pin s pin 86 (aircraft ground)? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and <input type="checkbox"/> 52P-C057E pin 71 or <input type="checkbox"/> 52P-U045B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
<input type="checkbox"/> (4) Disconnect 52P-C057D from no. 7 circuit breaker/relay panel assembly.		
(5) Does continuity exist between 61P-F001B pin 6 and <input type="checkbox"/> 52P-C057D pin 34 or <input type="checkbox"/> 52P-V045 pin q? .....	l	<input type="checkbox"/> t or <input type="checkbox"/> q

Table 1. Harpoon Weapon Station 2 28vdc Power Control Fail (Continued)

Procedure	No	Yes
q. <input type="checkbox"/> 2 Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) Does 115vac exists from 52P-U045A pin z to aircraft ground? .....	r	s
r. <input type="checkbox"/> 2 Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		
(4) Does continuity exists between 52P-C057C pin s and 52P-V044A z? .....	l	t
s. <input type="checkbox"/> 2 Isolate malfunction between no. 11 relay panel assembly wiring and station 2 28vdc power control relay (61K-U142) (A1-F18AC-420-300, WP043 00). Do step ad .....	-	-
t. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, station 2 28vdc power control relay (61K-C142), and ARM STA 2 28vdc circuit breaker (61CBC145) (A1-F18AC-420-300, WP027 00). Do step ad .....	-	-
u. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.		
(7) On master arm control panel assembly, set MASTER switch to ARM. Press A/G light switch to select A/G aircraft master mode.		
(8) In nose wheelwell, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(9) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is <input type="checkbox"/> 1 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 2? .....	y	v

**Table 1. Harpoon Weapon Station 2 28vdc Power Control Fail (Continued)**

Procedure	No	Yes
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(6) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	w	x
w. Replace Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(3) Turn electrical power on (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(5) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	i	m
y. Memory inspect station 2 28vdc power control (CORESV+4/BIT 3) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<b>NOTE</b>		
<p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display X1XXXX? .....	z	e

Table 1. Harpoon Weapon Station 2 28vdc Power Control Fail (Continued)

Procedure	No	Yes
z. Does 28vdc exist between 61P-W251 pin 11 and aircraft ground? ..... aa. Do substeps below: (1) Turn electrical power off (A1-F18AC-LMM-000). (2) On pylon, open door 502 (A1-F18AC-LMM-010). (3) Disconnect 61P-W112 from AIR-GND pylon disconnect.	g	aa
<b>NOTE</b> Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) On Harpoon jumper cable W56236, does continuity exist between 61P-W112 pins 40/51 and 61P-W251 pin 11? ..... ab. Do substeps below: (1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). (2) Turn electrical power on (A1-F18AC-LMM-000). (3) Does 28vdc exist between 52J-U062 pins 52/53 and aircraft ground? .....	i	ab
ac. Do substeps below: (1) Turn electrical power off (A1-F18AC-LMM-000). (2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010). (3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.	m	ac
<b>NOTE</b> Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) Does continuity exist between <input type="checkbox"/> 1 52P-C057C pin a or <input type="checkbox"/> 2 52P-U045C pin b and 52J-U062 pins 52/53? ..... ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed. (1) 52P-C057C <input type="checkbox"/> 1 (2) 52P-C057D	l	s

Table 1. Harpoon Weapon Station 2 28vdc Power Control Fail (Continued)

Procedure	No	Yes
<div>1</div> (3) 52P-C057E <div>2</div> (4) 52P-U045B <div>2</div> (5) 52P-U045C  (6) 61P-W012D (7) 61P-W112 (8) 61P-W251 (9) 61P-F001B  (10) Doors 10L, 14R, 502, 504, 79L (11) Jumper wire (61P-W251)  (12) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b> <div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 2. Harpoon Weapon Station 3 28vdc Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 2. Harpoon Weapon Station 3 28vdc Power Control Fail (Continued)**

NOTE		
<p>Weapon Station 3 Power Control Schematic, AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP028 00, WP053 00 and WP054 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Aircraft Wiring</p> <p>Armament Computer CP-1342/AYQ-9(V)</p> <p>Harpoon Jumper Cable W56236</p> <p>Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p> <p>No. 7 Circuit Breaker/Relay Panel Assembly</p> <p>Simulator Test Set TS-3519D/DSM</p> <p><input type="checkbox"/> 2 No. 11 Relay Panel Assembly</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p><input type="checkbox"/> 1 52P-C057E</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 28vdc seeker standby power existing when it should be off? .....	b	u
b. Do substeps below:		



**Table 2. Harpoon Weapon Station 3 28vdc Power Control Fail (Continued)**

Procedure	No	Yes
<p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</p> <p>(4) Connect jumper wire between 61P-W251 pin 8 (Harpoon Ident) and pin 4 (28vdc).</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p> <p>(6) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.</p> <p>(9) On RDDI:</p> <p style="padding-left: 40px;">(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p style="padding-left: 40px;">(b) Press STORES pushbutton switch.</p> <p style="padding-left: 40px;">(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 3? .....</p> <p>c. Do table 2, WP029 09 .....</p> <p>d. Do substeps below:</p> <p style="padding-left: 40px;">(1) On master arm control panel assembly, press A/G light switch to select A/G aircraft master mode.</p> <p style="padding-left: 40px;">(2) Select HARPOON on stores display.</p> <p style="padding-left: 40px;">(3) Memory inspect station 3 28vdc power control (CORESV+4/BIT 11) by doing substeps below:</p> <p style="padding-left: 80px;">(a) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).</p>	<p>c</p> <p>-</p>	<p>d</p> <p>-</p>

Table 2. Harpoon Weapon Station 3 28vdc Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(b) On RDDI, does DATA readout display XXXX2X? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 28vdc exist between 61P-W251 pin 11 and pin 32 (28vdc return)? .....	h	g
g. Replace test set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) Does continuity exist between:		
61P-W112 pins 40/51 and 61P-W251 pin 11		
61P-W112 pin 2 and 61P-W251 pin 32? .....	i	j
i. Replace Harpoon jumper cable W56236 (A1-F18AE-LWS-000). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.		
(4) Does continuity exist between:		
61P-W251 pins 11 and <input type="checkbox"/> 1 52P-C057C pin b or <input type="checkbox"/> 2 52P-U045C pin a		
61P-W251 pin 32 and aircraft ground? .....	k	n

Table 2. Harpoon Weapon Station 3 28vdc Power Control Fail (Continued)

Procedure	No	Yes
k. Do substeps below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-U063 pins 52/53 and <input type="checkbox"/> 1 52P-C057C pin b or <input type="checkbox"/> 2 52P-U045C pin a		
52J-U063 pin 93 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 1 52P-C057E from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045B from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 14 and <input type="checkbox"/> 1 52P-C057E pin 27 or <input type="checkbox"/> 2 52P-U045B pin c? .....	l	<input type="checkbox"/> 1 t or <input type="checkbox"/> 2 q

Table 2. Harpoon Weapon Station 3 28vdc Power Control Fail (Continued)

Procedure	No	Yes
q. <input type="checkbox"/> 2 Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) Does 115vac exists from 52P-U045A pin z to aircraft ground? .....	r	s
r. <input type="checkbox"/> 2 Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		
(4) Does continuity exists between 52P-C057C pin m and 52P-V044A JJ? .....	l	t
s. <input type="checkbox"/> 2 Isolate malfunction between no. 11 relay panel assembly wiring and station 3 28vdc power control relay (61K-U133) (A1-F18AC-420-300, WP043 00). Do step ad .....	-	-
t. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, station 3 28vdc power control relay (61K-C141), and ARM STA 3 28vdc circuit breaker (61CBC144) (A1-F18AC-420-300, WP027 00). Do step ad .....	-	-
u. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.		
(7) On master arm control panel assembly, set MASTER switch to ARM. Press A/G light switch to select A/G aircraft master mode.		
(8) In nose wheelwell, set ARMAMENT OVERRIDE switch to OVERRIDE.		

Table 2. Harpoon Weapon Station 3 28vdc Power Control Fail (Continued)

Procedure	No	Yes
<p>(9) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 3? .....</p>	y	v
<p>v. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012D from encoder-decoder.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(6) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....</p>	w	x
<p>w. Replace Left Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step aa .....</p>	-	-
<p>x. Do substeps below:</p> <p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.</p> <p>(3) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(5) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....</p>	i	m
<p>y. Memory inspect station 3 28vdc power control (CORESV+4/BIT 11) by doing substeps below.</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).</p>		

Table 2. Harpoon Weapon Station 3 28vdc Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX2X? .....	z	e
z. Does 28vdc exist between 61P-W251 pin 11 and aircraft ground? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(4) On Harpoon jumper cable W56236, does continuity exist between 61P-W112 pins 40/51 and 61P-W251 pin 11? .....	i	ab
ab. Do substeps below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 28vdc exist between 52J-U063 pins 52/53 and aircraft ground? .....	m	ac
ac. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.		

Table 2. Harpoon Weapon Station 3 28vdc Power Control Fail (Continued)

Procedure	No	Yes
<p align="center"><b>NOTE</b></p> <p align="center">Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
<p>(4) Does continuity exist between <input type="checkbox"/> 1 52P-C057C pin b or <input type="checkbox"/> 2 52P-U045C pin a and 52J-U063 pins 52/53? .....</p> <p>ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.</p> <p>(1) 52P-C057C</p> <p><input type="checkbox"/> 1 (2) 52P-C057E</p> <p><input type="checkbox"/> 2 (3) 52P-U045B</p> <p><input type="checkbox"/> 2 (4) 52P-U045C</p> <p>(5) 61P-W012D</p> <p>(6) 61P-W112</p> <p>(7) 61P-W251</p> <p>(8) 61P-F001B</p> <p>(9) Doors 10L, 14R, 502, 504, 79L</p> <p>(10) Jumper wire (61P-W251)</p> <p>(11) Aircraft Wing Pylon SUU-63( ) .....</p>	1	<input type="checkbox"/> 1 t or <input type="checkbox"/> 2 s
	-	-
<p align="center"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		





## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-84 HARPOON WEAPON STATION POWER CONTROL, PART 6

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74

## Reference Material

Airborne Weapons/Stores Loading ..... A1-F18AE-LWS-000  
 Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010  
 Weapon Control Systems ..... A1-F18AC-740-200  
 Memory Inspect Data ..... WP010 19

## Alphabetical Index

## Subject

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Harpoon Weapon Station 7 28vdc Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 1. Harpoon Weapon Station 7 28vdc Power Control Fail (Continued)**

NOTE		
<p>Weapon Station 7 Power Control Schematic, AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP032 00, WP054 00 and WP053 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Aircraft Wiring</p> <p>Armament Computer CP-1342/AYQ-9(V)</p> <p>Harpoon Jumper Cable W56236</p> <p><input type="checkbox"/> No. 2 Relay Panel Assembly</p> <p>Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p> <p>Simulator Test Set TS-3519D/DSM</p> <p><input type="checkbox"/> No. 10 Relay Panel Assembly</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Is troubleshooting being done for 28vdc seeker standby power existing when it should be off? .....</p> <p>b. Do substeps below:</p> <ol style="list-style-type: none"> <li>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</li> <li>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</li> </ol>		
	b	u

Table 1. Harpoon Weapon Station 7 28vdc Power Control Fail (Continued)

Procedure	No	Yes
<p>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</p> <p>(4) Connect jumper wire between 61P-W251 pin 8 (Harpoon Ident) and pin 4 (28vdc).</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p> <p>(6) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.</p> <p>(9) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 7? .....</p>	c	d
c. Do table 3, WP029 09 .....	-	-
d. Do substeps below:		
<p>(1) On master arm control panel assembly, set MASTER switch to ARM. Press A/G light switch to select A/G aircraft master mode.</p> <p>(2) In nose wheelwell, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(3) Memory inspect station 7 28vdc power control (CORESV+2/BIT 14) by doing substeps below:</p> <p>(a) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(b) On RDDI, does DATA readout display <input type="checkbox"/> XXXXX2 or <input type="checkbox"/> XXXXX3? ....	e	f

Table 1. Harpoon Weapon Station 7 28vdc Power Control Fail (Continued)

Procedure	No	Yes
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 28vdc exist between 61P-W251 pin 11 and pin 32 (28vdc return)? .....	h	g
g. Replace test set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) Does continuity exist between:		
61P-W112 pins 40/51 and 61P-W251 pin 11		
61P-W112 pin 2 and 61P-W251 pin 32? .....	i	j
i. Replace Harpoon jumper cable W56236 (A1-F18AE-LWS-000). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open door <input type="checkbox"/> 1 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.		
(4) Does continuity exist between:		
61P-W251 pins 11 and <input type="checkbox"/> 1 52P-F058D pin V or <input type="checkbox"/> 2 52P-V044C pin a		
61P-W251 pin 32 and aircraft ground? .....	k	n
k. Do substeps below:		
(1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-V067 pins 52/53 and <input type="checkbox"/> 1 52P-F058D pin V or <input type="checkbox"/> 2 52P-V044C pin a		
52J-V067 pin 93 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-

Table 1. Harpoon Weapon Station 7 28vdc Power Control Fail (Continued)

Procedure	No	Yes
m. Replace right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 1 52P-F058C from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044B from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-F058C pin 38 and aircraft ground or <input type="checkbox"/> 2 52P-V044B pin s and aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 24 and <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
<input type="checkbox"/> 1 (4) Disconnect 52P-F058A from no. 2 relay panel assembly.		
(5) Does continuity exist between 61P-F001B pin 11 and <input type="checkbox"/> 1 52P-F058A pin E or <input type="checkbox"/> 2 52P-V044B pin c? .....	l	q
q. Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) Does 28vdc exist between <input type="checkbox"/> 1 52P-F058D pin U or <input type="checkbox"/> 2 52P-V044B pin JJ and aircraft ground? .....	r	s
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		

Table 1. Harpoon Weapon Station 7 28vdc Power Control Fail (Continued)

Procedure	No	Yes
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) Does continuity exist between 52P-D026C pin x and <input type="checkbox"/> 1 52P-F058D pin U or <input type="checkbox"/> 2 52P-V044B pin JJ? .....	l	t
s. <input type="checkbox"/> 1 Isolate malfunction between no. 2 relay panel assembly wiring and station 7 28vdc power control relay (61K-F147) (A1-F18AC-420-300, WP032 00). Do step ad .....	-	-
<input type="checkbox"/> 2 Isolate malfunction between no. 10 relay panel assembly wiring and station 7 28vdc power control relay (61K-V147) (A1-F18AC-420-300, WP042 00). Do step ad .....	-	-
t. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and STA 7 28vdc circuit breaker (61CBD146) (A1-F18AC-420-300, WP025 00). Do step ad .....	-	-
u. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.		
(7) On master arm control panel assembly, set MASTER switch to ARM. Press A/G light switch to select A/G aircraft master mode.		
(8) In nose wheelwell, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(9) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is <input type="checkbox"/> 1 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 7? .....	y	v
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		

**Table 1. Harpoon Weapon Station 7 28vdc Power Control Fail (Continued)**

Procedure	No	Yes
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(6) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	w	x
w. Replace Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(3) Turn electrical power on (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(5) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	i	m
y. Memory inspect station 7 28vdc power control (CORESV+2/BIT 14) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display <input type="checkbox"/> 1 XXXXX2 or <input type="checkbox"/> 2 XXXXX3? ....	z	e
z. Does 28vdc exist between 61P-W251 pin 11 and aircraft ground? .....	g	aa
aa. Do substeps below:		

Table 1. Harpoon Weapon Station 7 28vdc Power Control Fail (Continued)

Procedure	No	Yes
(1) Turn electrical power off (A1-F18AC-LMM-000). (2) On pylon, open door 502 (A1-F18AC-LMM-010). (3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
<b>NOTE</b>		
Bent/recessed pins on connectors are a common cause of stray voltage.		
(4) On Harpoon jumper cable W56236, does continuity exist between 61P-W112 pins 40/51 and 61P-W251 pin 11? .....	i	ab
ab. Do substeps below:		
(1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). (2) Turn electrical power on (A1-F18AC-LMM-000). (3) Does 28vdc exist between 52J-V067 pins 52/53 and aircraft ground? .....	m	ac
ac. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000). (2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010). (3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) Does continuity exist between <input type="checkbox"/> 1 52P-F058D pin V or <input type="checkbox"/> 2 52P-V044C pin a and 52J-V067 pins 52/53? .....	l	s
ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.		
(1) 52P-D026C		
<input type="checkbox"/> 1 (2) 52P-F058A		
<input type="checkbox"/> 1 (3) 52P-F058C		



Table 1. Harpoon Weapon Station 7 28vdc Power Control Fail (Continued)

Procedure	No	Yes
<div>1</div> (4) 52P-F058D <div>2</div> (5) 52P-V044B <div>2</div> (6) 52P-V044C  (7) 61P-W012D (8) 61P-W112 (9) 61P-W251 (10) 61P-F001B  (11) Doors 10R, 14R, 502, 504, 79R (12) Jumper wire (61P-W251)  (13) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b> <div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 2. Harpoon Weapon Station 8 28vdc Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 2. Harpoon Weapon Station 8 28vdc Power Control Fail (Continued)**

NOTE		
<p>Weapon Station 8 Power Control Schematic, AGM-84 Harpoon Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP033 00, WP054 00 and WP053 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  Harpoon Jumper Cable W56236  No. 4 Circuit Breaker Panel Assembly  Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  Station 8 28vdc Power Control Relay 61K-D161  Simulator Test Set TS-3519D/DSM</p>		
<div>2</div> No. 10 Relay Panel Assembly		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 28vdc seeker standby power existing when it should be off? .....	b	u
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		

**Table 2. Harpoon Weapon Station 8 28vdc Power Control Fail (Continued)**

Procedure	No	Yes
<p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</p> <p>(4) Connect jumper wire between 61P-W251 pin 8 (Harpoon Ident) and pin 4 (28vdc).</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p> <p>(6) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.</p> <p>(9) On RDDI:</p> <p style="padding-left: 40px;">(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p style="padding-left: 40px;">(b) Press STORES pushbutton switch.</p> <p style="padding-left: 40px;">(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 HPD/THPD symbol on stores display for station 8? .....</p> <p>c. Do table 4, WP029 09 .....</p> <p>d. Do substeps below:</p> <p style="padding-left: 40px;">(1) On master arm control panel assembly, set MASTER switch to ARM. Press A/G light switch to select A/G aircraft master mode.</p> <p style="padding-left: 40px;">(2) Select HARPOON on stores display.</p> <p style="padding-left: 40px;">(3) Memory inspect station 8 28vdc power control (CORESV+6/BIT 13) by doing substeps below:</p> <p style="padding-left: 80px;">(a) Using unit address 06, memory inspect address for ref code CORESV+6 (table 2, WP010 19).</p>	<p>c</p> <p>-</p>	<p>d</p> <p>-</p>

Table 2. Harpoon Weapon Station 8 28vdc Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(b) On RDDI, does DATA readout display <input type="checkbox"/> XXXXX4 or <input type="checkbox"/> XXXXX6? ....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 28vdc exist between 61P-W251 pin 11 and pin 32 (28vdc return)? .....	h	g
g. Replace test set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) Does continuity exist between:		
61P-W112 pins 40/51 and 61P-W251 pin 11		
61P-W112 pin 2 and 61P-W251 pin 32? .....	i	j
i. Replace Harpoon jumper cable W56236 (A1-F18AE-LWS-000). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open door <input type="checkbox"/> 10R or <input type="checkbox"/> door 79R (A1-F18AC-LMM-010).		
<input type="checkbox"/> (3) Remove station 8 28vdc power control relay (61K-D161) (A1-F18AC-740-300, WP020 01).		
(4) Does continuity exist between:		
61P-W251 pins 11 and <input type="checkbox"/> 61X-D161 pin A1 or <input type="checkbox"/> 52P-V044C pin b		
61P-W251 pin 32 and aircraft ground? .....	k	n

Table 2. Harpoon Weapon Station 8 28vdc Power Control Fail (Continued)

Procedure	No	Yes
k. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-V068 pins 52/53 and <input type="checkbox"/> 61X-D161 pin A1 or <input type="checkbox"/> 52P-V044C pin b		
52J-V068 pin 93 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 52P-V044B from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 61X-D161 pin X1 or <input type="checkbox"/> 52P-V044B pin s and pin G (aircraft ground)? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 24 and <input type="checkbox"/> 61X-D161 pin X1 or <input type="checkbox"/> 52P-V044B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		

Table 2. Harpoon Weapon Station 8 28vdc Power Control Fail (Continued)

Procedure	No	Yes
<p>(4) Does continuity exist between 61P-F001B pin 12 and <input type="checkbox"/> 1 61X-D161 pin X2 or <input type="checkbox"/> 2 52P-V044B pin q? .....</p> <p>q. Do substeps below:</p> <p>(1) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(2) Does 28vdc exist between <input type="checkbox"/> 1 61X-D161 pin A2 or <input type="checkbox"/> 2 52P-V044B pin z and pin G (aircraft ground)? .....</p> <p>r. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.</p> <p>(4) Does continuity exist between 52P-D026C pin q and <input type="checkbox"/> 1 61X-D161 pin A2 or <input type="checkbox"/> 2 52P-V044B pin z? .....</p> <p>s. <input type="checkbox"/> 1 Replace station 8 28vdc power control relay (61K-D161) (A1-F18AC-740-300, WP020 01). Do step ad .....</p> <p><input type="checkbox"/> 2 Isolate malfunction between no. 10 relay panel assembly wiring and station 8 28vdc power control relay (61K-V161) (A1-F18AC-420-300, WP042 00). Do step ad .....</p> <p>t. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and STA 8 28vdc circuit breaker (61CBD149) (A1-F18AC-420-300, WP025 00). Do step ad .....</p> <p>u. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W251 (Harpoon jumper cable W56236) from test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p>	<p>l</p> <p>r</p> <p>l</p> <p>-</p> <p>-</p> <p>-</p>	<p>q</p> <p>s</p> <p>t</p> <p>-</p> <p>-</p> <p>-</p>

**Table 2. Harpoon Weapon Station 8 28vdc Power Control Fail (Continued)**

Procedure	No	Yes
<p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.</p> <p>(7) On master arm control panel assembly, set MASTER switch to ARM. Press A/G light switch to select A/G aircraft master mode.</p> <p>(8) In nose wheelwell, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(9) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 2 1 HPD/THPD symbol on stores display for station 8? .....</p>	y	v
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(6) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....	w	x
w. Replace Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(3) Turn electrical power on (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		

Table 2. Harpoon Weapon Station 8 28vdc Power Control Fail (Continued)

Procedure	No	Yes
<p>(5) Does 28vdc exist between 61P-W012D pin C and aircraft ground? .....</p> <p>y. Memory inspect station 8 28vdc power control (CORESV+6/BIT 13) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+6 (table 2, WP010 19).</p> <p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p> <p>(2) On RDDI, does DATA readout display <input type="text" value="1"/> XXXXXX4 or <input type="text" value="2"/> XXXXXX6? ....</p> <p>z. Does 28vdc exist between 61P-W251 pin 11 and aircraft ground? .....</p> <p>aa. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 502 on pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p> <p>(4) On Harpoon jumper cable W56236, does continuity exist between 61P-W112 pins 40/51 and 61P-W251 pin 11? .....</p> <p>ab. Do substeps below:</p> <p>(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) Does 28vdc exist between 52J-V068 pins 52/53 and aircraft ground? .....</p>	<p>i</p> <p>z</p> <p>g</p> <p>i</p> <p>m</p>	<p>m</p> <p>e</p> <p>aa</p> <p>ab</p> <p>ac</p>



Table 2. Harpoon Weapon Station 8 28vdc Power Control Fail (Continued)

Procedure	No	Yes
ac. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open <input type="checkbox"/> 1 door 10R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		
(3) Remove station 8 28vdc power control relay (61K-D161) (A1-F18AC-740-300, WP020 01), or <input type="checkbox"/> 2 disconnect 52P-V044C from no. 10 relay panel assembly.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) Does continuity exist between <input type="checkbox"/> 1 61K-D161 pin A1 or <input type="checkbox"/> 2 52P-V044C pin b and 52J-V068 pins 52/53? .....	1	s
ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.		
(1) 52P-D026C		
<input type="checkbox"/> 1 (2) 61K-D161		
<input type="checkbox"/> 2 (3) 52P-V044B		
<input type="checkbox"/> 2 (4) 52P-V044C		
(5) 61P-W012D		
(6) 61P-W112		
(7) 61P-W251		
(8) 61P-F001B		
(9) Doors 10R, 14R, 502, 504, 79R		
(10) Jumper wire (61P-W251)		
(11) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TROUBLESHOOTING - AGM 84 HARPOON IDENT**  
**SUSPENSION AND RELEASE MECHANISMS**

**Reference Material**

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**Table 1. Station 2 Does Not Display 1 HP/ THP or 1 HPD/THPD  
On Stores Display**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 1. Station 2 Does Not Display 1 HP/ THP or 1 HPD/THPD  
On Stores Display (Continued)**

NOTE		
<p>Weapon Station 2 Power Control Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP027 00 and WP053 00) may be used as an aid while doing this procedure.</p> <p>For component locator, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>AGM-84 Harpoon Missile Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 Harpoon Jumper Cable W56236 Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) Simulator Test Set TS-3519D/DSM</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p>		

**Table 1. Station 2 Does Not Display 1 HP/ THP or 1 HPD/THPD  
On Stores Display (Continued)**

Procedure	No	Yes
<p>(2) Open door 502 (A1-F18AC-LMM-010).</p> <p>(3) If not installed, connect 61P-W093 (Harpoon jumper cable W56236) to 61J-W093 (AIR-AIR).</p> <p>(4) Install jumper wire from 61P-W251 pin 8 to pin 4 (28vdc) (Harpoon Ident).</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p> <p>(6) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.</p> <p>(9) On RDDI:</p> <p style="padding-left: 40px;">(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p style="padding-left: 40px;">(b) Press STORES pushbutton switch.</p> <p style="padding-left: 40px;">(c) Does RDDI display <input type="text" value="1"/> 1 HP/THP or <input type="text" value="2"/> 1 HPD/THPD for station 2 on stores display? .....</p> <p>b. Malfunction was caused by one of the items listed below:</p> <p style="padding-left: 40px;">(1) AGM-84 Harpoon missile (A1-F18AE-LWS-000).</p> <p style="padding-left: 40px;">(2) Harpoon jumper cable W56236 (A1-F18AE-LWS-000).</p> <p style="padding-left: 40px;">(3) Simulator Test Set TS-3519D/DSM.</p> <p>Do step k .....</p> <p>c. Do substeps listed below:</p> <p style="padding-left: 40px;">(1) Using unit address 06, memory inspect address for ref code MSG4 WD3 (table 2, WP010 19).</p>	<p>c</p> <p>-</p>	<p>b</p> <p>-</p>


**Table 1. Station 2 Does Not Display 1 HP/ THP or 1 HPD/THPD  
On Stores Display (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XX2XXX? .....	e	d
d. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step k ....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from J2 on armament computer.		
(4) Open door 504 (A1-F18AC-LMM-010).		
(5) Disconnect 61P-W012A from J1 on encoder-decoder.		
(6) Does continuity exist between 61P-F001B pin 96 and 61P-W012A pin C? .....	f	h
f. Do substeps listed below:		
(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between 61P-F001B pin 96 and 52J-U062 pin 7? .....	g	i
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step k .....	-	-
h. Do substeps listed below:		
(1) In door 504, disconnect 61P-W012D from J4 on encoder-decoder.		
(2) Disconnect 61P-W093 (Harpoon jumper cable W56236) from 61J-W093 (AIR-AIR).		

**Table 1. Station 2 Does Not Display 1 HP/ THP or 1 HPD/THPD  
On Stores Display (Continued)**

Procedure	No	Yes
(3) Does continuity exist between 61P-W012D pin C and 61J-W093 pin 39? .....	i	j
i. Replace left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k .....	-	-
j. Malfunction is caused by one of the items listed below:		
(1) Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
(2) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
Do step k .....	-	-
k. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-F001B		
(2) 61P-W093		
(3) 61P-W012A		
(4) 61P-W012D		
(5) Aircraft Wing Pylon SUU-63( )		
(6) Door 14R		
(7) Door 502		
(8) Door 504		
(9) Remove jumper wire (61P-W251) .....	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 2. Station 3 Does Not Display 1 HP/THP or 1 HPD/THPD  
On Stores Display**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 3 Power Control Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP028 00, WP053 00) may be used as an aid while doing this procedure.		
For component locator, refer to WP007 00.		
Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:		
AGM-84 Harpoon Missile Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 Harpoon Jumper Cable W56236 Left Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) Simulator Test Set TS-3519D/DSM		
Procedure	No	Yes
<div></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div><b>NOTE</b></div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol>		



**Table 2. Station 3 Does Not Display 1 HP/THP or 1 HPD/THPD  
On Stores Display (Continued)**


Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) Open door 502 (A1-F18AC-LMM-010).</p> <p>(3) If not installed, connect 61P-W093 (Harpoon jumper cable W56236) to 61J-W093 (AIR-AIR).</p> <p>(4) Install jumper wire from 61P-W251 pin 8 to pin 4 (28vdc) (Harpoon Ident).</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p> <p>(6) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.</p> <p>(9) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Does RDDI display <input type="text" value="1"/> 1 HP/THP or <input type="text" value="2"/> 1 HPD/THPD for station 3 on stores display? .....</p>		
<p>b. Malfunction was caused by one of the items listed below:</p> <p>(1) AGM-84 Harpoon missile (A1-F18AE-LWS-000)</p> <p>(2) Harpoon jumper cable W56236 (A1-F18AE-LWS-000).</p> <p>(3) Simulator Test Set TS-3519D/DSM.</p> <p>Do step k .....</p>		
<p>c. Do substeps listed below:</p> <p>(1) Using unit address 06, memory inspect address for ref code MSG4 WD5 (table 2, WP010 19).</p>		

**Table 2. Station 3 Does Not Display 1 HP/THP or 1 HPD/THPD  
On Stores Display (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
<p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XX2XXX? .....	e	d
d. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step k ....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from J2 on armament computer.		
(4) Open door 504 (A1-F18AC-LMM-010).		
(5) Disconnect 61P-W012A from J1 on encoder-decoder.		
(6) Does continuity exist between 61P-F001B pin 105 and 61P-W012A pin C? .....	f	h
f. Do substeps listed below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between 61P-F001B pin 105 and 52J-U063 pin 7? .....	g	i
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step k .....	-	-
h. Do substeps listed below:		



**Table 3. Station 7 Does Not Display 1 HP/THP or 1 HPD/THPD  
On Stores Display**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
<p>Weapon Station 7 Power Control Schematic and Weapon Station 2, 3, 7, 8 AGM-84 Harpoon Schematic (A1-F18AC-740-500, WP032 00 and WP060 02) may be used as an aid while doing this procedure.</p> <p>For component locator, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>AGM-84 Harpoon Missile Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 Harpoon Jumper Cable W56236 Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) Simulator Test Set TS-3519D/DSM</p>		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p>		

**Table 3. Station 7 Does Not Display 1 HP/THP or 1 HPD/THPD  
On Stores Display (Continued)**

Procedure	No	Yes
<p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) Open door 502 (A1-F18AC-LMM-010).</p> <p>(3) If not installed, connect 61P-W093 (Harpoon jumper cable W56236) to 61J-W093 (AIR-AIR).</p> <p>(4) Install jumper wire from 61P-W251 pin 8 to pin 4 (28vdc) (Harpoon Ident).</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p> <p>(6) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.</p> <p>(9) On RDDI:</p> <p style="padding-left: 40px;">(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p style="padding-left: 40px;">(b) Press STORES pushbutton switch.</p> <p style="padding-left: 40px;">(c) Does RDDI display <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 1 HPD/THPD for station 3 on stores display? .....</p> <p>b. Malfunction was caused by one of the items listed below:</p> <p style="padding-left: 40px;">(1) AGM-84 Harpoon missile (A1-F18AE-LWS-000).</p> <p style="padding-left: 40px;">(2) Harpoon jumper cable W56236 (A1-F18AE-LWS-000).</p> <p style="padding-left: 40px;">(3) Simulator Test Set TS-3519D/DSM.</p> <p>Do step k .....</p> <p>c. Do substeps listed below:</p> <p style="padding-left: 40px;">(1) Using unit address 06, memory inspect address for ref code WSG4 WD13 (table 2, WP010 19).</p>	<p>c</p> <p>-</p>	<p>b</p> <p>-</p>

**Table 3. Station 7 Does Not Display 1 HP/THP or 1 HPD/THPD  
On Stores Display (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
<p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XX2XXX? .....	e	d
d. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step k ....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from J2 on armament computer.		
(4) Open door 504 (A1-F18AC-LMM-010).		
(5) Disconnect 61P-W012A from J1 on encoder-decoder.		
(6) Does continuity exist between 61P-F001B pin 109 and 61P-W012A pin C? .....	f	h
f. Do substeps listed below:		
(1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between 61P-F001B pin 109 and 52J-V067 pin 7? .....	g	i
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step k .....	-	-
h. Do substeps listed below:		
(1) In door 504, disconnect 61P-W012D from J4 on encoder-decoder.		
(2) Disconnect 61P-W093 (Harpoon jumper cable W56236) from 61J-W093 (AIR-AIR).		
(3) Does continuity exist between 61P-W012D pin C and 61J-W093 pin 39? .....	i	j
i. Replace right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k .....	-	-


**Table 3. Station 7 Does Not Display 1 HP/THP or 1 HPD/THPD  
On Stores Display (Continued)**

Procedure	No	Yes
j. Malfunction is caused by one of the items listed below:		
(1) Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
(2) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
Do step k .....	-	-
k. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-F001B		
(2) 61P-W093		
(3) 61P-W012A		
(4) 61P-W012D		
(5) Aircraft Wing Pylon SUU-63( )		
(6) Door 14R		
(7) Door 502		
(8) Door 504		
(9) Remove jumper wire (61P-W251) .....	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 4. Station 8 Does Not Display 1 HP/THP or 1 HPD/THPD  
On Stores Display**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

**Table 4. Station 8 Does Not Display 1 HP/THP or 1 HPD/THPD  
On Stores Display (Continued)**

<b>Materials Required</b>		
None		
<b>NOTE</b>		
Weapon Station 8 Power Control Schematic and Weapon Station 8 Power Control Schematic (A1-F18AC-740-500, WP033 00, WP053 00) may be used as an aid while doing this procedure.		
For component locator, refer to WP007 00.		
Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:		
AGM-84 Harpoon Missile		
Aircraft Wing Pylon SUU-63( )		
Aircraft Wiring		
Armament Computer CP-1342/AYQ-9(V)		
Digital Data Computer No. 2		
Harpoon Jumper Cable W56236		
Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Simulator Test Set TS-3519D/DSM		
Procedure	No	Yes
		
To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX1 scale.		
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step.		
2. Shorts to ground.		
3. Shorts between surrounding pins on connectors.		
4. Shorts between shield and conductors.		
5. Shield continuity.		
a. Do substeps listed below:		





**Table 4. Station 8 Does Not Display 1 HP/THP or 1 HPD/THPD  
On Stores Display (Continued)**

Procedure	No	Yes
<p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) Open door 502 (A1-F18AC-LMM-010).</p> <p>(3) If not installed, connect 61P-W093 (Harpoon jumper cable W56236) to 61J-W093 (AIR-AIR).</p> <p>(4) Install jumper wire from 61P-W251 pin 8 to pin 4 (28vdc) (Harpoon Ident).</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p> <p>(6) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.</p> <p>(9) On RDDI:</p> <p style="padding-left: 40px;">(a) Press and release MENU pushbutton switch until STORES option is displayed.</p> <p style="padding-left: 40px;">(b) Press STORES pushbutton switch.</p> <p style="padding-left: 40px;">(c) Does RDDI display <input type="checkbox"/> 1 HP/THP or <input type="checkbox"/> 1 HPD/THPD for station 8 on stores display? .....</p> <p>b. Malfunction was caused by one of the items listed below:</p> <p style="padding-left: 40px;">(1) AGM-84 Harpoon missile (A1-F18AE-LWS-000)</p> <p style="padding-left: 40px;">(2) Harpoon jumper cable W56236 (A1-F18AE-LWS-000).</p> <p style="padding-left: 40px;">(3) Simulator Test Set TS-3519D/DSM.</p> <p>Do step k .....</p> <p>c. Do substeps listed below:</p> <p style="padding-left: 40px;">(1) Using unit address 06, memory inspect address for ref code MSG4 WD15 (table 2, WP010 19).</p>	<p>c</p> <p>-</p>	<p>b</p> <p>-</p>

**Table 4. Station 8 Does Not Display 1 HP/THP or 1 HPD/THPD  
On Stores Display (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XX2XXX? .....	e	d
d. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step k ....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from J2 on armament computer.		
(4) Open door 504 (A1-F18AC-LMM-010).		
(5) Disconnect 61P-W012A from J1 on encoder-decoder.		
(6) Does continuity exist between 61P-F001B pin 94 and 61P-W012A pin C? .....	f	h
f. Do substeps listed below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between 61P-F001B pin 94 and 52J-V068 pin 7? .....	g	i
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step k .....	-	-
h. Do substeps listed below:		
(1) In door 504, disconnect 61P-W012D from J4 on encoder-decoder.		
(2) Disconnect 61P-W093 (Harpoon jumper cable W56236) from 61J-W093 (AIR-AIR).		
(3) Does continuity exist between 61P-W012D pin C and 6LJ-W093 pin 39? .....	i	j
i. Replace right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k .....	-	-

**Table 4. Station 8 Does Not Display 1 HP/THP or 1 HPD/THPD  
On Stores Display (Continued)**

Procedure	No	Yes
<p>j. Malfunction is caused by one of the items listed below:</p> <p>(1) Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>(2) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>Do step k . . . . .</p>	-	-
<p>k. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:</p> <p>(1) 61P-F001B</p> <p>(2) 61P-W093</p> <p>(3) 61P-W012A</p> <p>(4) 61P-W012D</p> <p>(5) Aircraft Wing Pylon SUU-63( )</p> <p>(6) Door 14R</p> <p>(7) Door 502</p> <p>(8) Door 504</p> <p>(9) Remove jumper wire (61P-W251) . . . . .</p>	-	-
<b>LEGEND</b>		
<p> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p>		
<p> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AGM-84 HARPOON WEAPON SYSTEM TEST USING SIMULATOR TEST SET TS-3519D/DSM

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 162394 AND UP BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292; ALSO 161702 THRU  
161987 AFTER F/A-18 AFC 74

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Initiated Built-In Test .....	WP009 00
Stores Management System Circuit Breakers .....	WP008 00
Suspension and Release Mechanisms Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA-F/A-18-00090)	15 Dec 89	ECP Cover- age Only

Table 1. Harpoon System Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>  All system components installed.		
<b>Related Systems Required</b>  Avionics Cooling System		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
Electrical System Maintenance Status Displayed and Recording System Mission Computer System Multipurpose Display Group		
Support Equipment Required		
Part Number or Type Designation	Nomenclature	
72P100028-1001	Simulator Test Set TS-3519D/DSM	
AN/AWM-54	Aircraft Firing Circuit Test Set	
74D420030-1001	Proximity Switch Control	
74D750020-1001	Test - Breech Adapter	
74D750037-1001	Test - Auxiliary Breech Adapter	
Materials Required		
None		
NOTE		
Component locations are shown in WP007 00.		
Test displays are shown in figure 1.		
Test equipment hookup is shown on figure 2.		
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).		
<div>WARNING</div>		
To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.		
a. Make sure electrical power is off (A1-F18AC-LMM-000).		
b. Make sure all weapons are removed from aircraft.		
c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER/BRU-41/BRU-42) if installed on aircraft.</p> <p>g. If gun is installed, make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>h. If gun is installed, make sure gun holdback mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>i. Make sure all explosive cartridges are removed from AN/ALE-39 dispensers if installed on aircraft.</p> <p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove auxiliary breech cap assembly, forward and aft chamber assemblies from breeches on Aircraft Bomb Ejector Racks BRU-32( ).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>For the remainder of this test, the term AWM-54 refers to TS-3021/AWM-54 and the term simulator test set refers to the TS-3519D/DSM.</p>		

Table 1. Harpoon System Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>b. Remove AWM-54 and W1 cable from Aircraft Firing Circuit Test Set AN/AWM-54 (fig 2).</p> <p>c. Connect W1P1 of W1 cable to AWM-54, WIP2 of W1 to breech test adapter, and do AWM-54 self test.</p> <p>d. Install breech test adapter in breech of bomb rack and auxiliary breech test adapter in auxiliary breech of bomb rack for station under test.</p> <p>e. Open door 502 on wing pylon (A1-F18AC-LMM-010).</p> <p>f. Remove pin and lower bail bar, position cable assembly lanyards on bail bar and secure with pin.</p> <p>g. Position harpoon jumper cable W56236 in pylon (A1-F18AE-LWS-000).</p> <p>h. Connect 61P-W093 and 61P-W112 to pylon stores electrical disconnect panel.</p> <p>i. Remove cover from Simulator Test Set TS-3519D/DSM and remove cable.</p> <p>j. Connect P1 of cable to J1 on simulator test set.</p> <p>k. Connect P2 of cable on simulator test set to harpoon jumper cable W56236, 61P-W251 for station under test.</p> <p>l. Connect simulator test set ground strap between test set and aircraft.</p> <p>3. PRELIMINARY.</p>		



Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>a. Close hooks on all Aircraft Bomb Ejector Racks BRU-32( ).</p> <p>b. Set ground safety handle to LOCKED.</p> <p>c. On Aircraft Guided Missile Launcher LAU-116( ) make sure all launcher hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p> <p>d. Open door 14R (A1-F18AC-LMM-010).</p> <p>e. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 62 (HP) or 63 training harpoon (THP) and FUZING N switch to 0 and T switch to 0 for station under test.</p> <p>f. Do nose wheelwell digital display indicator built-in test/reset procedures (A1-F18AC-LMM-000).</p>	SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED.	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If knob will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: fit-content;">WARNING</div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>g. Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>h. Connect ground intercommunications hookup (A1-F18ACLMM-000).</p> <p>4. TEST SET SELF TEST.</p> <p>a. Apply electrical power (A1-F18AC-LMM-000).</p>		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>b. On simulator test set, place SIMULATOR PWR switch to DAY or NIGHT position.</p> <p>c. On simulator test set, press and release PROGRAM SELECT switches until 01 is displayed.</p> <p>d. On simulator test set, press and release ENTER switch.</p> <p>e. On simulator test set, press and release MASTER RESET switch.</p> <p>5. SYSTEM TURN ON/BIT.</p> <p>a. On GND PWR control panel assembly, set and hold 1 and 2 switches to B ON for 3 seconds.</p> <p>b. On MC/HYD ISOL control panel assembly, set MC switch to NORM.</p> <p>c. On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.</p>	<p>1. SIM PWR indicator lamp on.</p> <p>2. Main menu displayed on simulator test set.</p> <p>1. SELF TEST IN PROGRESS displayed.</p> <p>2. SELF TEST PASSED displayed.</p> <p>Switches remain on (latched).</p> <p>1. LDDI and RDDI have display and center pushbutton switch on bottom row is labeled MENU.</p>	<p>Repair or replace simulator test set.</p> <p>Repair or replace simulator test set.</p> <p>1. If switches unlatch in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).</p> <p>2. If switches will not remain on, do GND PWR Switching System Test (A1-F18AC-420-200, WP006 00).</p> <p>3. If one but not all switches remain on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).</p> <p>1. No display on LDDI, do table 1 (A1-F18AC-745-200, WP006 00).</p> <p>2. No display on RDDI, do table 2 (A1-F18AC-745-200, WP007 00).</p>

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. On RDDI, press and release MENU pushbutton switch until BIT pushbutton option is displayed.</p> <p>e. On RDDI in sequence, press BIT pushbutton switch and then STORES pushbutton switch.</p> <p>f. Make sure RADAR switch on SNSR pod control box panel assembly is OFF.</p>	<p>2. LDDI has cautions and advisory display</p> <p>Menu display appears on RDDI.</p> <p>BIT control display appears then changes to STORES BIT display on RDDI.</p>	<p>3. If STANDBY is displayed:</p> <p>F/A-18A, do table 2 (A1-F18AC-745-200, WP004 00).</p> <p>F/A-18B, do table 2 (A1-F18AC-745-200, WP005 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator, (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator IP-1317 (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator IP-1317 (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator IP-1317 (A1-F18AC-745-300, WP004 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>If a malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</p>		
g. On RDDI, observe SMS BIT status message display.	SMS status message display is NOT RDY.	Replace Digital Data Computer No. 1 (A1-F18AC-741-300, WP003 00).

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
h. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds. Observe SMS BIT status message display.	<p>1. Within 20 seconds, SMS BIT status message NOT RDY is removed and SF TEST is displayed.</p> <p>2. Within 160 seconds after SF TEST is displayed, SMS BIT status message is GO.</p>	<p>1. If SMS display remains NOT RDY:</p> <p>a. On 161353 THRU 161359, do table 2 (WP010 00).</p> <p>b. On 161360 AND UP, do table 1, WP010 01.</p> <p>2. If SMS does not display SF TEST, replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>1. If SMS display is NO GO, replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>2. If SMS display is DEGD or OPRNL GO, read maintenance code(s) in nose wheelwell and do table 1 (WP010 00).</p> <p>3. If SMS display is DEGD OH, set 3 switch on GND PWR panel to AUTO and do table 2 (WP010 02).</p> <p>4. If SMS display is OH, set 3 switch on GND PWR panel to AUTO and do table 1 (WP010 02).</p>
i. On the LDDI, press and release MENU pushbutton until BIT pushbutton option is displayed.	On the LDDI, the MENU display appears.	
j. On the LDDI, press and release the BIT pushbutton.	On the LDDI, the BIT display appears, SMS GO displayed when BIT is complete.	
k. On RDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed.	<p>1. Menu display appears on RDDI.</p> <p>2. Simulator test set displays 3 PH AC PWR NOT REMOVED PRIOR TO DESELECT.</p>	<p>Replace right Digital Display Indicator IP-1317 (A1-F18AC-745-300, WP004 00).</p> <p>Repair or replace simulator test set.</p>

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>1. On RDDI, press STORES push-button switch.</p> <p>6. NORMAL RELEASE PROCEDURE.</p> <p>a. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>b. On RH console, make sure release consent dummy panel is installed.</p> <p>c. On master arm control panel assembly, set MASTER switch to ARM.</p> <p>d. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>e. On simulator test set, press and release PROGRAM SELECT switches A and B until 02 is displayed.</p> <p>f. On simulator test set, press and release ENTER switch.</p> <p>g. On simulator test set, press and release PROGRAM SELECT switches A and B until 02 is displayed.</p> <p>h. On simulator test set, press and release ENTER switch.</p>	<p>1. Harpoon stores display with 1 HP or 1 THP in wing form appears on RDDI.</p> <p>SAFE displayed on RDDI.</p> <p>1. Switch remains engaged.</p> <p>2. ARM is displayed on RDDI.</p> <p>Test Set displays 02.</p> <p>Test Set displays 02.</p>	<p>Station 2: Do table 1 (WP029 09).</p> <p>Station 3: Do table 2 (WP029 09).</p> <p>Station 7: Do table 3 (WP029 09).</p> <p>Station 8: Do table 4 (WP029 09).</p> <p>Do table 2 (WP010 17).</p> <p>Do table 1 (WP012 00).</p> <p>Do table 1 (WP010 17).</p>

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>i. Observe simulator test set for correct indications;</p> <p>3 PH-AC A*B*C DC WARMUP PWR STATION MGU/SKR HTR PWR BATTERY HTR PWR MISSILE MISSILE</p>	<p>On simulator test set:</p> <p>NOGO NOGO DESELECT GO GO PRESENT SAFE</p>	<p>Station 2: Do table 1 (WP029 03) or table 1 (WP029 05)</p> <p>Station 3: Do table 2 (WP029 03) or table 2 (WP029 05).</p> <p>Station 7: Do table 1 (WP029 04) or table 1 (WP029 06).</p> <p>Station 8: Do table 1 (WP029 04) or table 2 (WP029 06).</p>
<p>j. Install arming wires in nose arming solenoid/latch ZRF arming unit for station being checked.</p>		
<p>k. On RDDI, press and release HP or THP pushbutton switch.</p>	<p>HP or THP boxed with an X superimposed over the box.</p>	<p>1. Transfer display to LDDI and repeat step g on LDDI.</p> <p>2. If indication is normal, replace right Digital Display Indicator IP-1317, (A1-F18AC-745-300, WP004 00).</p> <p>3. If indication is still abnormal, replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00).</p>
<p>l. On master arm control panel assembly, press and release A/G switch.</p>	<p>1. A/G indicator light comes on.</p> <p>2. TIMING displayed at upper left hand corner of stores display and on simulator test set, DC WARMUP PWR-GO is displayed.</p>	<p>On F/A-18A, dot table 1 (WP010 34). On F/A-18B, do table 2 (WP010 34).</p> <p>Station 2: Do table 1 (WP029 07).</p> <p>Station 3: Do table 2 (WP029 07).</p> <p>Station 7: Do table 1 (WP029 08).</p> <p>Station 8: Do table 2 (WP029 08).</p>

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
	<p>3. Ground safety handle on bomb rack moves to UNLOCKED.</p> <p>4. X is removed and RDY displayed under HP or THP.</p> <p>5. Box appears around 1 HP or 1 THP in wingform for station being checked.</p>	<p>Do table 1 (WP021 00).</p> <p>Station 2: Do table 1 (WP029 09).</p> <p>Station 3: Do table 2 (WP029 09).</p> <p>Station 7: Do table 3 (WP029 09).</p> <p>Station 8: Do table 4 (WP029 09).</p>
<p>m. Observe simulator test set for correct indication;</p> <p>3PH-AC A*B*C BATTERY HTR PWR MGU/SKR HTR PWR STATION</p>	<p>On simulator test set:</p> <p>GO NO GO NO GO SELECT</p>	<p>Station 2: Do table 1 (WP029 03) or table 1 (WP029 05).</p> <p>Station 3: Do table 2 (WP029 03) or table 2 (WP029 05).</p> <p>Station 7: Do table 1 (WP029 04) or table 1 (WP029 06).</p> <p>Station 8: Do table 2 (WP029 04) or table 2 (WP029 06).</p>
<p>n. On AWM-54, set FCTN selector switch to F/C.</p>		
<p><b>NOTE</b></p> <p>If any step in the procedure below fails, do AWM-54 self test before doing trouble-shooting. Adapter must be removed from breech to do self test.</p>		
<p>o. On AWM-54, press and hold TEST switch.</p>		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p>PROX FUZE SEL indicator comes on if safety disable is selected for a training harpoon (THP).</p> <p>20 seconds must pass after selecting A/G in step 6l before doing step 6q.</p>		
<p>p. On aircraft controller grip assembly, press and hold A/G weapon release switch.</p>	<p>1. GO light on AWM-54 comes on.</p>	<p>1. On nose wheelwell digital display indicator, read and record maintenance code display (A1-F18AC-LMM-000). If maintenance codes 072, 073, 077, 078 or 085 are displayed, do table 1 (WP010 00).</p>
	<p>2. H+ULK displayed on wingform of stores display for station under test.</p>	<p>2. Do table 2 (WP029 02).</p>
	<p>3. ITL and MISSILE UNSAFE displayed on simulator test set.</p>	<p>Do table 4 (WP029 02).</p>
<p>q. On AWM-54, release TEST switch.</p>		
<p>r. Observe simulator test set for correct indications;</p>		
<p>After one second:</p>		
<p>MISSILE ENABLED</p>	<p>Displayed.</p>	
<p>After three seconds:</p>		
<p>3 PH-AC A*B*C</p>	<p>NO GO</p>	<p>Station 2: Do table 1 (WP029 03) or table 1 (WP029 07).</p>
<p>DC WARMUP PWR</p>	<p>NO GO</p>	<p>Station 3: Do table 2 (WP029 03) or table 2 (WP029 07).</p>



Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>After 7 seconds:</p> <p>MISSILE PRESENT</p> <p>MISSILE ENABLED</p> <p>s. Release TEST switch on AWM-54 test set.</p> <p>t. On aircraft controller grip assembly, release A/G weapon release switch.</p> <p>u. On AWM-54, set FCTN switch to S/V.</p> <p>v. On AWM-54, press and release TEST switch.</p> <p>w. On master arm control panel assembly, set MASTER switch to SAFE.</p> <p>x. On master arm control panel assembly, press and release A/G switch.</p> <p>y. On proximity switch control, set MAIN GEAR NOSE GEAR and GEAR UPLOCK switches to NORM.</p> <p>z. On simulator test set, press and release MASTER RESET.</p> <p>aa. On simulator test set, press and release PROGRAM SELECT switches until 02 is displayed.</p> <p>ab. On simulator test set, press and release ENTER switch.</p>	<p>Removed from test display.</p> <p>Removed from test display.</p> <p>Arming wire is retained in nose arming solenoid.</p> <p>Arming wire can be released manually.</p> <p>GO light on AWM-54 comes on and remains on until TEST switch is released.</p> <p>1. SAFE displayed on RDDI.</p> <p>2. ARMAMENT OVERRIDE switch disengages.</p> <p>A/G indicator light goes off.</p> <p>Ground safety handle on bomb rack moves to LOCKED.</p> <p>Main menu displayed on simulator test set.</p>	<p>Station 7: Do table 1 (WP029 04) or table 1 (WP029 06).</p> <p>Station 8: Do table 2 (WP029 04) or table 2 (WP029 06).</p> <p>Do table 3 (WP029 02).</p> <p>Do table 2 (WP010 17).</p> <p>Do table 3 (WP010 17).</p> <p>On F/A-18A, do table 1 (WP010 32).</p> <p>On F/A-18B, do table 2 (WP010 32).</p> <p>Do table 1 (WP021 00).</p>

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>ac. On simulator test set, press and release PROGRAM SELECT switches until 01 is displayed.</p> <p>ad. On simulator test set, press and release ENTER switch.</p> <p>ae. On master arm control panel assembly, press and release A/G switch then, after 10 seconds, press and release again.</p>	<p>1. A/G indicator light comes on and goes off.</p> <p>2. 1 HP or 1 THP displayed in wingform on RDDI.</p>	<p>If indicator light failed to come on: On F/A-18A, do table 1 (WP010 34).</p> <p>On F/A-18B, do table 2 (WP010 34).</p> <p>Station 2: Do table 1 (WP029 09).</p> <p>Station 3: Do table 2 (WP029 09).</p> <p>Station 7: Do table 3 (WP029 09).</p> <p>Station 8: Do table 4 (WP029 09).</p>
<p>af. On simulator test set, press and release PROGRAM SELECT switches until 01 appears.</p> <p>ag. On simulator test set, press and release ENTER switch.</p> <p>ah. On simulator test set, press and release PROGRAM SELECT switches until 09 is displayed.</p> <p>ai. On simulator test set, press and release ENTER switch.</p> <p>aj. On simulator test set, press and release PROGRAM SELECT switches until 02 is displayed.</p> <p>ak. On simulator test set, press and release ENTER switch.</p>	<p>Simulator test set displays;  MSL ENBL-F</p> <p>Simulator test set displays;  MSL ENBL-F</p>	

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
al. Observe simulator test set for correct indications;  3 PH-AC A*B*C DC WARMUP PWR STATION MGU/SKR HTR PWR BATTERY HTR PWR MISSILE MISSILE	On simulator test set:  NO GO NO GO DESELECT GO GO PRESENT SAFE	
7. AUXILIARY RELEASE PROCEDURES.  a. Disconnect W1P2 of W1 from breech test adapter.  b. Connect W1P2 of W1 to auxiliary breech test adapter.  c. On proximity switch control set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.  d. On master arm control panel assembly, press and release A/G switch.          e. On master arm control panel assembly, set MASTER switch to ARM.	1. A/G indicator light comes on.          2. Ground safety handle on bomb rack moves to UNLOCKED.    SAFE displayed on RDDI.	On F/A-18A, do table 1, (WP010 34).  On F/A-18B, do table 2, (WP010 34).  Do table 1 (WP021 00).  Do table 2 (WP010 17).

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
f. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged. 2. ARM is displayed on RDDI. 3. RDY displayed under HP or THP on RDDI.	Do table 1 (WP012 00).  Do table 1 (WP010 17).  Station 2: Do table 1 (WP029 09).  Station 3: Do table 2 (WO029 09).  Station 7: Do table 3 (WP029 09).  Station 8: Do table 4 (WP029 09).
g. Observe simulator test set for correct indication;  DC WARMUP PWR	On simulator test set:  GO	Station 2: Do table 1 (WP029 07).  Station 3: Do table 2 (WP029 07).  Station 7: Do table 1 (WP029 08).  Station 8: Do table 2 (WP029 08).
h. Observe simulator test set for correct indications;  (1) 3 PH-AC A*B*C (2) STATION (3) BATTERY HTR PWR (4) MGU/SKR HTR PWR	On simulator test set:  GO SELECT NO GO NO GO	Station 2: Do table 1 (WP029 03) or table 1 (WP029 05).  Station 3: Do table 2 (WP029 03) or table 2 (WP029 05).  Station 7: Do table 1 (WP029 04) or table 1 (WP029 06).  Station 8: Do table 2 (WP029 04) or table 2 (WP029 06).
i. On AWM-54, set FCTN selector switch to F/C.		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p align="center">If any step in the procedure below fails, do AWM-54 self test before doing trouble-shooting. Adapter must be removed from breech to do self test.</p>		
j. On AWM-54, press and hold TEST switch.		
<p align="center"><b>NOTE</b></p> <p align="center">PROX FUZE SEL light comes on if safety disable is selected for a training harpoon (THP).</p>		
k. On aircraft controller grip assembly, press and release A/G weapon release switch.	<p>1. NO GO light on AWM-54 comes on.</p> <p>2. WFAL displayed under 1 HP or 1 THP in wingform on RDDI.</p> <p>3. On simulator test set:</p> <p>After 2 seconds,</p> <p align="center">MISSILE ENABLED DISCRETE FAULTED</p>	<p>On nose wheelwell digital display indicator, read and record maintenance code display (A1-F18AC-LMM-000). If maintenance codes 072, 073, 077, 078 or 085 are displayed, do table 1 (WP010 00).</p> <p>Station 2: Do table 1 (WP029 09)).</p> <p>Station 3: Do table 2 (WP029 09).</p> <p>Station 7: Do table 3 (WP029 09).</p> <p>Station 8: Do table 4 (WP092 09).</p> <p>Do table 4 (WP029 02).</p>
<p align="center"><b>NOTE</b></p> <p align="center">If ENTER is held too long, the required display will be stepped over and cannot be recalled. If necessary, repeat test from step 6w.</p>		
1. On simulator test set, momentarily press and release ENTER switch.		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>m. Observe simulator test set for correct indication;</p> <p>3 PH-AC A*B*C DC WARMUP PWR STATION DESELECT</p> <p>MGU/SKR HTR PWR BATTERY HTR PWR MISSILE PRESENT MISSILE UNSAFE</p>	<p>On simulator test set:</p> <p>ABORT COMMAND RECEIVED NO GO NO GO DESELECT ITL NO GO NO GO PRESENT UNSAFE ABORT RESPONSE SENT</p>	<p>Station 2: Do table 1 (WP029 03) or table 1 (WP029 07).</p> <p>Station 3: Do table 2 (WP029 03) or table 2 (WP029 07).</p> <p>Station 7: Do table 1 (WP029 04) or table 1 (WP029 08).</p> <p>Station 8: Do table 1 (WP029 04) or table 1 (WP029 08).</p>
<p>n. On AWM-54, release TEST switch.</p>		
<p>o. On master arm control panel assembly, set MASTER switch to SAFE.</p>	<p>1. SAFE displayed on RDDI.</p> <p>2. ARMAMENT OVERRIDE switch disengages.</p>	<p>Do table 2 (WP010 17).</p> <p>Do table 3 (WP010 17).</p>
<p>p. On master arm control panel assembly, press and release A/G switch.</p>	<p>A/G indicator light goes off.</p>	<p>On F/A-18A, do table 1, (WP010 32).</p> <p>On F/A-18B, do table 2, (WP010 32).</p>
<p>q. On proximity switch control, set MAIN GEAR NOSE GEAR and GEAR UPLOCK switches to NORM.</p>	<p>Ground safety handle on bomb rack moves to LOCKED.</p>	<p>Do table 1 (WP021 00).</p>
<p>r. On simulator test set, press and release MASTER RESET.</p>	<p>Main menu displayed on simulator test set.</p>	
<p>s. On simulator test set, press and release PROGRAM SELECT switches until 02 is displayed.</p>		
<p>t. On simulator test set, press and release ENTER switch.</p>		
<p>u. On simulator test set, press and release PROGRAM SELECT switches until 01 is displayed.</p>		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>v. On simulator test set, press and release ENTER switch.</p> <p>w. On simulator test set, press and release ENTER switch.</p> <p>x. On simulator test set, press and release PROGRAM SELECT switches until 09 is displayed.</p> <p>y. On simulator test set, press and release ENTER switch.</p> <p>z. On simulator test set, press and release PROGRAM SELECT switches until 02 is displayed.</p> <p>aa. On simulator test set, press and release ENTER switch.</p> <p>ab. On master arm control panel assembly, press and release A/G switch; then, after 10 seconds, press and release again.</p>	<p>Simulator test set displays;</p> <p>MSL PRES - F</p> <p>1. A/G indicator light comes on and goes off.</p> <p>2. Box appears around 1 HP or 1 THP in wingform for station being checked.</p>	<p>If indicator light failed to come on: On F/A-18A, do table 1 (WP010 34).</p> <p>On F/A-18B, do table 2 (WP010 34).</p> <p>Station 2: Do table 1 (WP029 09).</p> <p>Station 3: Do table 2 (WP029 09).</p> <p>Station 7: Do table 3 (WP029 09).</p> <p>Station 8: Do table 4 (WP029 09).</p>

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
ac. Observe simulator test set for correct indications;  3 PH-AC A*B*C DC WARMUP PWR STATION MGU/SKR HTR PWR BATTERY HTR PWR MISSILE MISSILE	On simulator test set:  NOGO NOGO DESELECT GO GO PRESENT SAFE	Station 2: Do table 1 (WP029 03) or table 1 (WP029 05).  Station 3: Do table 2 (WP029 03) or table 2 (WP029 05).  Station 7: Do table 1 (WP029 04) or table 1 (WP029 06).  Station 8: Do table 2 (WP029 04) or table 2 (WP029 06).
ad. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.	Ground safety handle on bomb rack moves to UNLOCKED.	Do table 1 (WP021 00).
ae. On master arm control panel assembly, press and release A/G switch.	A/G indicator light comes on.	If indicator light fails to come on:  On F/A-18A, do table 1 (WP010 32).  On F/A-18B, do table 2 (WP010 32).
af. Observe simulator test set for correct indications;  3 PH-AC A*B*C DC WARMUP PWR STATION MGU/SKR HTR PWR BATTERY HTR PWR MISSILE MISSILE	On simulator test set:  GO GO SELECT NOGO NOGO PRESENT SAFE	Station 2: Do table 1 (WP029 03) or table 1 (WP029 05).  Station 3: Do table 2 (WP029 03) or table 2 (WP029 05).  Station 7: Do table 1 (WP029 04) or table 1 (WP029 06).  Station 8: Do table 2 (WP029 04) or table 2 (WP029 06).
ag. On master arm control panel assembly, set MASTER switch to ARM.	SAFE displayed on RDDI.	Do table 2 (WP010 17).



Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
ah. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged. 2. ARM is displayed on RDDI.	Do table 1 (WP012 00). Do table 1 (WP010 17).
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If any step in the procedure below fails, do AWM-54 self test before doing troubleshooting. Adapter must be removed from breech to do self test.</p>		
ai. On AWM-54, press and hold TEST switch.		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">PROX FUZE SEL indicator comes on if safety disable is selected for a training harpoon (THP).</p>		
aj. On aircraft controller grip assembly, press and release A/G weapon release switch.	1. NO GO light on AWM-54 comes on.  2. H+ULK displayed under 1 HP or 1 THP in wingform on RDDI.  3. On simulator test set:  After 7 seconds,  MISSILE PRESENT DISCRETE FAULTED	On nose wheelwell digital display indicator, read and record maintenance code display (A1-F18AC-LMM-000). If maintenance codes 072, 073, 077, 078 or 085 are displayed, do table 1 (WP010 00).  Station 2: Do table 1 (WP029 09).  Station 3: Do table 2 (WP029 09).  Station 7: Do table 1 (WP029 09).  Station 8: Do table 2 (WP029 09).

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
ak. On ECM control panel assembly, set AUX REL switch to ENABLE.	RDY displayed under boxed HP or THP on RDDI.	Station 2: Do table 1 (WP029 09).  Station 3: Do table 2 (WP029 09).  Station 7: Do table 1 (WP029 09).  Station 8: Do table 2 (WP029 09).
al. On aircraft controller grip assembly, press and release A/G weapon release switch.	GO light on AWM-54 comes on.	1. On nose wheelwell digital display indicator, read and record maintenance code display (A1-F18AC-LMM-000). If maintenance codes 072, 073, 077, 078 or 085 are displayed, do table 1 (WP010 00).  2. Do table 1 (WP021 01).
am. On AWM-54, release TEST switch.	GO light on AWM-54 goes off.	Replace AWM-54.
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If ENTER is held for too long, the required display will be stepped over and cannot be recalled. If necessary, repeat test from step 7o.</p>		
an. On simulator test set, momentarily press and release ENTER switch.		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>ao. Observe simulator test set for the correct indications;</p> <p>3 PH-AC A*B*C DC WARMUP PWR STATION</p> <p>MGU/SKR HTR PWR BATTERY HTR PWR MISSILE MISSILE</p>	<p>On simulator test set:</p> <p>ABORT COMMAND RECEIVED NOGO NOGO DESELECT ITL NOGO NOGO PRESENT UNSAFE ABORT RESPONSE SENT</p>	<p>Station 2: Do table 1 (WP029 03) or table 1 (WP29 05).</p> <p>Station 3: Do table 2 (WP029 03) or table 2 (WP29 05).</p> <p>Station 7: Do table 1 (WP029 04) or table 1 (WP29 06).</p> <p>Station 8: Do table 2 (WP029 04) or table 2 (WP29 06).</p>
<p>ap. On ECM control panel assembly, set AUX REL switch to NORM.</p>		
<p>aq. On master arm control panel assembly, set MASTER switch to SAFE.</p>	<p>1. SAFE displayed on RDDI.</p> <p>2. ARMAMENT OVERRIDE switch disengages.</p>	<p>Do table 2 (WP010 17).</p> <p>Do table 3 (WP010 17).</p>
<p>ar. On master arm control panel assembly, press and release A/G switch.</p>	<p>A/G indicator light goes off.</p>	<p>On F/A-18A, do table 1, (WP010 32).</p> <p>On F/A-18B, do table 2, (WP010 32).</p>
<p>as. On proximity switch control, set MAIN GEAR NOSE GEAR and GEAR UPLOCK switches to NORM.</p>	<p>Ground safety handle on bomb rack moves to LOCKED.</p>	<p>Do table 1 (WP021 00).</p>
<p>at. On simulator test set, place SIMULATOR PWR switch to off.</p>	<p>On simulator test set, SIM PWR indicator lamp off.</p>	<p>Repair simulator test set.</p>
<p>au. On RDDI, press 1 HP or 1 THP pushbutton switch.</p>		
<p>av. Do the substeps below if another station is to be tested. If no more stations are to be tested do SHUTDOWN steps.</p> <p>(1) Do SHUTDOWN steps 8a through 8f.</p>		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>(2) Repeat Harpoon System test for next station starting with step 2 Test EQUIPMENT HOOKUP.</p> <p>8. SHUTDOWN.</p> <p>a. On LDDI and RDDI, set power switch to OFF.</p> <p>b. On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.</p> <p>c. Turn electrical power off (A1-F18AC-LMM-000).</p> <p>d. Remove breech test adapters and disconnect simulator test set cable from harpoon jumper cable W56236.</p> <p>e. Disconnect harpoon jumper cable W56236, 61P-W093 and 61P-W112 from pylon stores electrical disconnect panel.</p> <p>f. Remove harpoon jumper cable W56236 from pylon and close door 502 (A1-F18AC-LMM-010).</p> <p>g. Disconnect simulator test set ground strap.</p> <p>h. Disconnect P1 of power cable from TS-3519D/DSM simulator test set.</p> <p>i. Stow power cable and ground strap in cover and install cover on simulator test set.</p> <p>j. Remove electrical power (A1-F18AC-LMM-000).</p> <p>k. Disconnect proximity switch control (A1-F18AC-LMM-000).</p>		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>l. Disconnect ground intercommunications hookup (A1-F18AC-LMM-000).</p> <p>m. Close door 14R (A1-F18AC-LMM-010).</p> <p>n. Disconnect W1 cable from auxiliary breech test adapter and test set and stow.</p> <p>o. Install auxiliary breech cap assembly and chamber assemblies in breech of Aircraft Bomb Ejector Racks BRU-32( ).</p>		

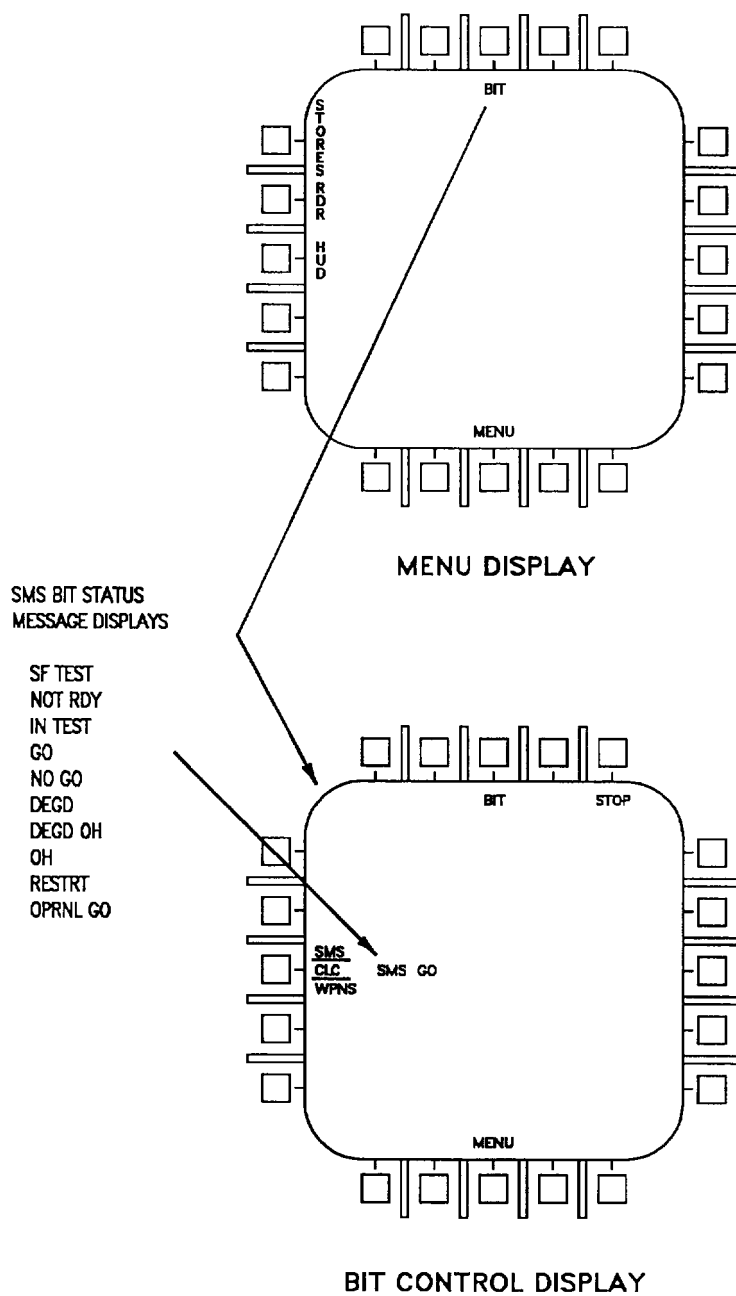


Figure 1. Test Displays (Sheet 1)

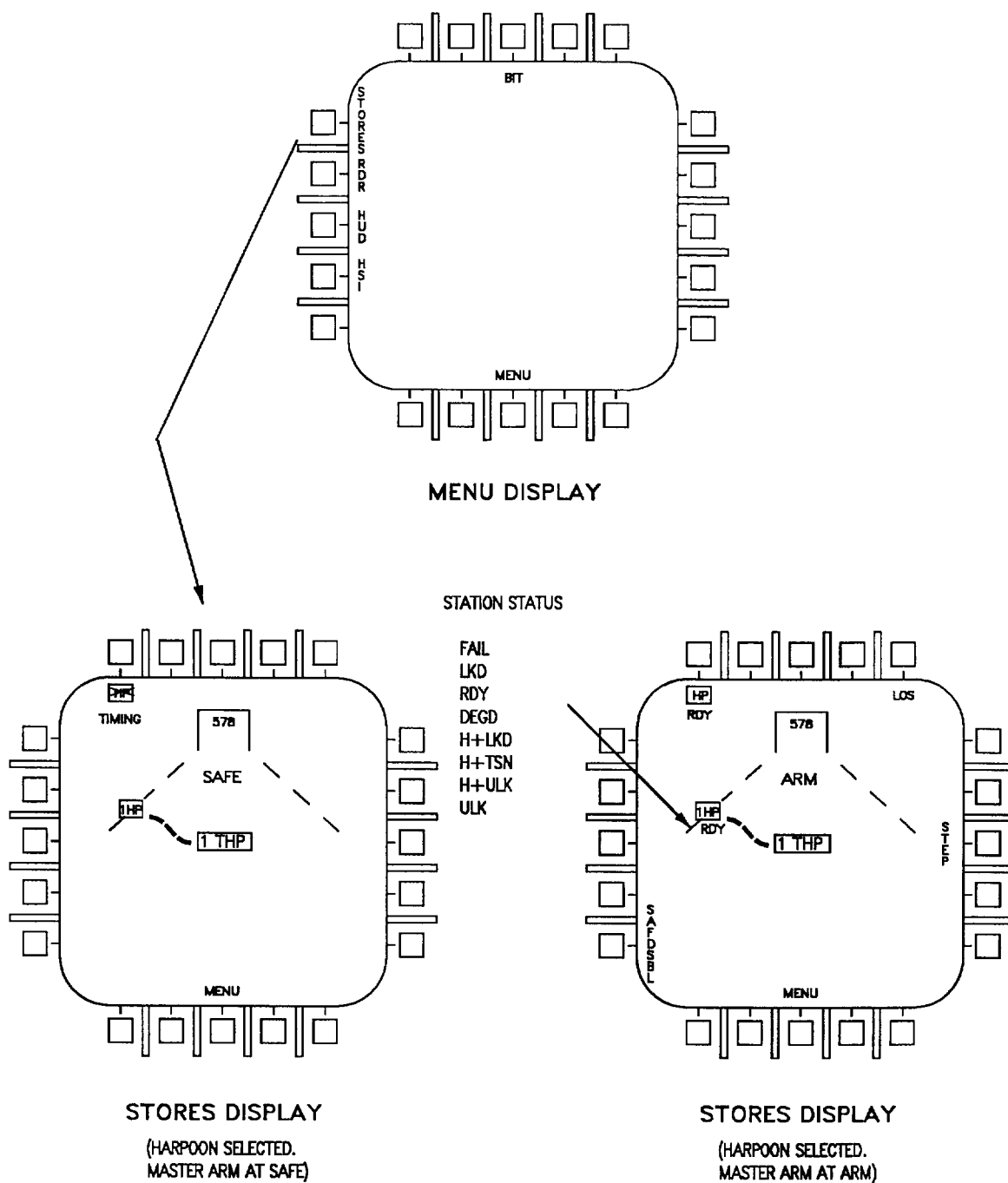
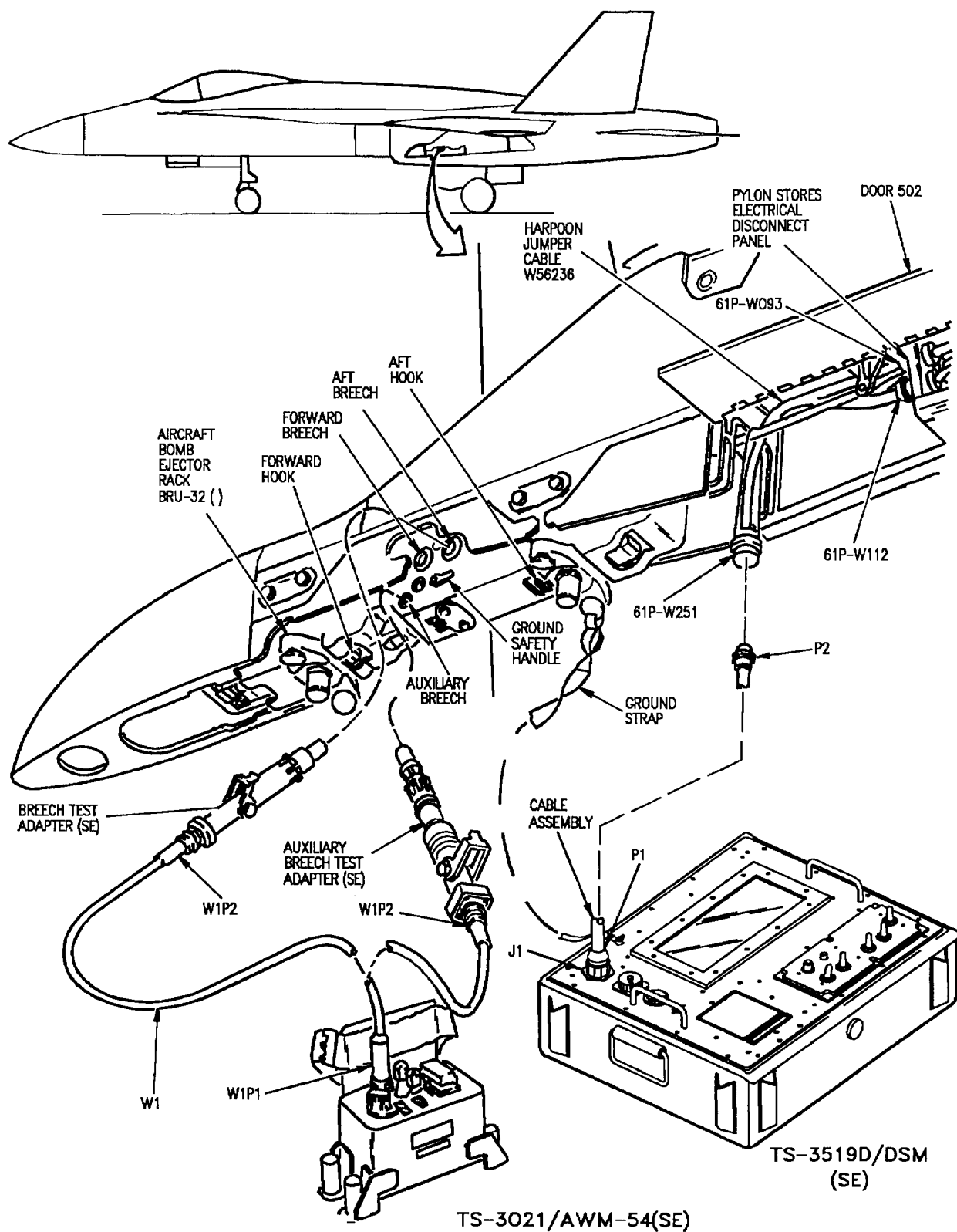


Figure 1. Test Displays (Sheet 2)



### Figure 2. Test Equipment Hookup



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AGM-84 HARPOON WEAPON SYSTEM TEST USING SIMULATOR TEST SET TS-3519D/ DSM

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Initiated Built-In Test .....	WP009 00
Stores Management System Circuit Breakers .....	WP008 00
Suspension and Release Mechanisms Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECF-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Harpoon System Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>		
All system components installed.		
<b>Related Systems Required</b>		
Avionics Cooling System		
Electrical System		
Maintenance Status Display and Recording System		
Mission Computer System		
Multipurpose Display Group		
<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
72P100028-1001	Simulator Test Set	
	TS-3519D/DSM	
AN/AWM-54	Aircraft Firing Circuit	
	Test Set	
74D420030-1001	Proximity Switch Control	
74D750020-1001	Test - Breech Adapter	
(1328AS525)		
74D750037-1001	Test - Auxiliary	
	Breech Adapter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
Component locations are shown in WP007 00.		
Test displays are shown in figure 1.		
Test equipment hookup is shown on figure 2.		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).		
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p style="text-align: center;">To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.</p>		
<p>a. Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>b. Make sure all weapons are removed from aircraft.</p> <p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) if installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on BRU-41/BRU-42 if installed on aircraft.</p> <p>g. If gun is installed, make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>h. If gun is installed, make sure gun holdback mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>i. Make sure AN/ALE-39 dispensers are removed from aircraft.</p>		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove auxiliary breech cap assembly, forward and aft chamber assemblies from breeches on Aircraft Bomb Ejector Racks BRU-32( ).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">For the remainder of this test, the term AWM-54 refers to TS-3021/AWM-54 and the term simulator test set refers to the TS-3519D/DSM.</p>		
<p>b. Remove AWM-54 and W1 cable from Aircraft Firing Circuit Test Set AN/AWM-54 (fig 2).</p> <p>c. Connect W1P1 of W1 cable to AWM-54, W1P2 of W1 to breech test adapter, and do AWM-54 self test.</p> <p>d. Install breech test adapter in breech of bomb rack and auxiliary breech test adapter in auxiliary breech of bomb rack for station under test.</p> <p>e. Open door 502 on wing pylon (A1-F18AC-LMM-010).</p> <p>f. Remove pin and lower bail bar, position cable assembly lanyards on bail bar and secure with pin.</p> <p>g. Position harpoon jumper cable W56236 in pylon (A1-F18AE-LWS-000).</p> <p>h. Connect 61P-W093 and 61P-W112 to pylon stores electrical disconnect panel.</p> <p>i. Remove cover from Simulator Test Set TS-3519D/DSM and remove cable.</p>		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>j. Connect P1 of cable to J1 on simulator test set.</p> <p>k. Connect P2 of cable on simulator test set to harpoon jumper cable W56236, 61P-W251 for station under test.</p> <p>l. Connect simulator test set ground strap between test set and aircraft.</p> <p>3. PRELIMINARY.</p> <p>a. Close hooks on all Aircraft Bomb Ejector Racks BRU-32( ) (stations to be tested).</p> <p>b. Set ground safety handle to LOCKED.</p> <p>c. On Aircraft Guided Missile Launcher LAU-116( ) make sure all launcher hooks are closed and SAFETY RELEASE is rotated clockwise.</p> <p>d. Open door 14R (A1-F18AC-LMM-010).</p> <p>e. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 62 (HPD) or 63 training harpoon (THPD) and FUZING N switch to 0 and T switch to 0 for station under test.</p> <p>f. Do nose wheelwell digital display indicator built-in test/reset procedures (A1-F18AC-LMM-000).</p>	<p>SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED.</p>	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If SAFETY RELEASE knob will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
g. Connect proximity switch control (A1-F18AC-LMM-000).  h. Connect ground intercommunications hookup (A1-F18AC-LMM-000).  i. Apply electrical power (A1-F18AC-LMM-000).  j. On GND PWR control panel assembly, set and hold 1 and 2 switches to B on for 3 seconds.	Switches remain on (latched).	1. If switches unlatch in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).  2. If no switches remain on, do GND PWR Switching System Test (A1-F18AC-420-200, WP006 00).  3. If one but not all switches remain on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).
4. TEST SET SELF TEST.  a. On simulator test set, place SIMULATOR PWR switch to DAY or NIGHT position.  b. On simulator test set, press and release PROGRAM SELECT switches until 01 is displayed.  c. On simulator test set, press and release ENTER switch.  d. On simulator test set, press and release MASTER RESET switch.	1. SIM PWR indicator lamp on.  2. Main menu displayed on simulator test set.  1. SELF TEST IN PROGRESS displayed.  2. SELF TEST PASSED displayed.	Repair or replace simulator test set.       Repair or replace simulator test set.

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>5. SYSTEM TURN ON/BIT.</p> <p>a. On MC/HYD ISOL control panel assembly, set MC switch to NORM.</p> <p>b. On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.</p> <p>c. On RDDI, press and release MENU pushbutton switch until BIT pushbutton option is displayed.</p> <p>d. On RDDI, press BIT pushbutton switch.</p> <p>e. On RDDI, press STORES pushbutton switch.</p> <p>f. Make sure RADAR switch on SNSR pod control box panel assembly is OFF.</p> <p>g. On simulator test set, press and release PROGRAM SELECT switches until 02 is displayed.</p> <p>h. On simulator test set, press and release ENTER switch.</p>	<p>1. LDDI and RDDI have display and center pushbutton switch on bottom row is labeled MENU.</p> <p>2. LDDI has cautions and advisory display.</p> <p>Menu display appears on RDDI.</p> <p>BIT control display appears on RDDI.</p> <p>STORES BIT display appears on RDDI.</p> <p>Test set displays 02.</p>	<p>1. No display on LDDI: do table 1 (A1-F18AC-745-200, WP006 00).</p> <p>2. No display on RDDI: do table 2 (A1-F18AC-745-200, WP006 00).</p> <p>3. If STANDBY is displayed: do table 2 (A1-F18AC-745-200, WP004 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator, (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator (A1-F18AC-745-300, WP004 00).</p> <p>Replace test set.</p>

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>i. Observe simulator test set for correct indications:</p> <p>j. On the GND PWR control panel, position and hold switch 3 to B ON for 3 seconds.</p> <p>k. On the left DDI, press and release the MENU pushbutton until the BIT pushbutton option is displayed.</p>	<p>On simulator test set:</p> <p>3 PH-AC A*B*C-NO GO DC WARMUP-NO GO STATION DESELECT MGU/SKR HTR PWR-NO GO BATTERY HTR PWR-NO GO MISSILE PRESENT MISSILE SAFE</p>	<p>Station 2: Do table 1 (WP029 03) or table 1 (WP029 05). Station 3: Do table 2 (WP029 03) or table 2 (WP029 05). Station 7: Do table 1 (WP029 04) or table 1 (WP029 06). Station 8: Do table 2 (WP029 04) or table 2 (WP29 06).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>If “3 PH AC PWR WAS NOT REMOVED ON STA DESELECT” does not appear on the test set display, continue the test. No fault has occurred.</p> <p>If the simulator test set displays “3 PH AC PWR WAS NOT REMOVED ON STA DESELECTED” other than noted in this procedure actuate and release the test set ENTER switch and continue test.</p> <p>After completion of Initiated Built-In Test (BIT), 1, 2 and 3 switches are left at B ON to continue with this test.</p> <p>If a malfunction occurs during this test, make sure circuit breakers shown in WP011 00 are closed.</p>		
<p>l. Do Initiated Built-In Test steps 3 and 4 (WP009 00).</p> <p>m. On RDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p>	<p>After successful completion of BIT, simulator test set displays 3 PH AC PWR WAS NOT REMOVED ON STA DESELECT.</p> <p>1. Menu display appears on RDDI.</p>	<p>Repair or replace simulator test set.</p> <p>Replace right Digital Display Indicator (A1-F18AC-745-300, WP004 00).</p>



Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
n. On RDDI, press STORES push-button switch.	2. Simulator test set displays, 3 PH AC PWR NOT REMOVED PRIOR TO DESELECT.  Harpoon stores display with 1 HPD or 1 THPD in wing form appears on RDDI. SAFE is on.	Repair or replace simulator test set.  Station 2: Do table 1 (WP029 09). Station 3: Do table 2 (WP029 09). Station 7: Do table 3 (WP029 09). Station 8: Do table 4 (WP029 09).
<p style="text-align: center;"><b>NOTE</b></p> <p>If TEST is displayed, do not proceed to next step until TEST is removed from wing-form.</p>		
o. On simulator test set, press and release MASTER RESET switch.		
p. On simulator test set, press and release PROGRAM SELECT switches until 02 is displayed.		
q. On simulator test set, press and release ENTER switch.		
r. On simulator test set, press and release PROGRAM SELECT switches until 02 is displayed.		
s. On simulator test set, press and release ENTER switch.	On simulator test set:  3 PH-AC A*B*C-NO GO DC WARMUP-NO GO STATION DESELECT MGU/SKR HTR PWR-GO BATTERY HTR PWR-GO MISSILE PRESENT MISSILE SAFE	Station 2: Do table 1 (WP029 03) or table 1 (WP029 05). Station 3: Do table 2 (WP029 03) or table 2 (WP029 05). Station 7: Do table 1 (WP029 04) or table 1 (WP029 06). Station 8: Do table 2 (WP029 04) or table 2 (WP029 06).
t. Press and hold A/G weapons Release Switch.	On simulator test set displays:	

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>u. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>v. On RH console, make sure release consent dummy panel is installed.</p> <p>w. On master arm control panel assembly, set MASTER switch to ARM.</p> <p>x. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>y. On master arm control panel assembly, press and release A/G switch.</p>	<p>1. 3 PH-AC A*B*C-NO GO DC WARMUP-NO GO ITL STATION DESELECT MGU/SKR HTR PWR-NO GO BATTERY HTR PWR-NO GO MISSILE SAFE</p>	<p>Station 2: Do table 1 (WP029 03) or table 1 (WP029 05). Station 3: Do table 2 (WP029 03) or table 2 (WP029 05). Station 7: Do table 1 (WP029 04) or table 1 (WP029 06). Station 8: Do table 2 (WP029 04) or table 2 (WP029 06).</p>
	2. AWM-54 Test set indicates GO	Do Table 2 (WP029 02).
	SAFE displayed on RDDI.	Do table 2 (WP010 17).
	1. Switch remains engaged.	Do table 1 (WP012 00).
	2. ARM is displayed on RDDI.	Do table 1 (WP010 17).
	1. A/G indicator light comes on.	F/A-18A, do table 1 (WP010 34). F/A-18B, do table 2 (WP010 34).
	2. TIMING displayed at upper left hand corner of stores display and on simulator test set, DC WARMUP PWR-GO is displayed.	Station 2: Do table 1 (WP029 07). Station 3: Do table 2 (WP029 07). Station 7: Do table 1 (WP029 08). Station 8: Do table 2 (WP029 08).
	3. Ground safety handle on bomb rack moves to UNLOCKED.	Do table 1 or 1A (WP021 00).
	4. X is removed and RDY displayed under HPD or THPD.	
	5. Box appears around 1 HPD or 1 THPD in wingform for station being checked.	Station 2: Do table 1 (WP029 09). Station 3: Do table 2 (WP029 09). Station 7: Do table 3 (WP029 09). Station 8: Do table 4 (WP029 09).

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>z. Install arming wire assembly in the nose arming solenoid/ latch nose ZRF arming unit for station being checked.</p> <p>aa. On RDDI, press and release HPD or THPD pushbutton switch.</p>	RDY displayed on DDI.	<p>Station 2: Do table 1 (WP029 09).</p> <p>Station 3: Do table 2 (WP029 09).</p> <p>Station 7: Do table 3 (WP029 09).</p> <p>Station 8: Do table 4 (WP029 09).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Do not proceed to next step until TIMING is removed from the right DDI.</p>		
<p>ab. Connect the AWM-54 simulator test set and W12/W47 adapter to the forward breech of station being checked.</p> <p>ac. On AWM-54, set FCTN selector switch to F/C.</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If any step in the procedure below fails, do AWM-54 self test before doing trouble-shooting. Adapter must be removed from breech to do self test.</p>		
<p>ad. On AWM-54, press and hold TEST switch.</p> <p>ae. Open the bomb rack suspension hooks. (Arming Solenoid) tug arming wire assembly sharply.</p> <p>af. On AWM-54, release TEST switch.</p> <p>ag. On aircraft controller grip assembly, release A/G weapon release switch.</p>	<p>ZRF arming units remain latched. Arming wire assembly retained in nose arming solenoid.</p> <p>1. On RDDI, RDY removed and HPD or THPD boxed with not ready X through it for station under test.</p>	<p>Replace arming solenoid of ZRF arming unit (A1-F18AC-740-300, WP028 00).</p> <p>1. Transfer display to LDDI and repeat step z on LDDI.</p> <p>2. If indication is normal, replace right Digital Display Indicator, (A1-F18AC-745-300, WP004 00).</p> <p>3. If indication is still abnormal, replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00).</p>

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
ah. On AWM-54, set FCTN switch to S/V.	2. 1 HPD or 1 THPD is boxed in wingform for station under test.	Station 2: Do table 1 (WP029 09). Station 3: Do table 2 (WP029 09). Station 7: Do table 3 (WP029 09). Station 8: Do table 4 (WP029 09).
ai. On AWM-54, press and release TEST switch.	3. H+ULK displayed on wingform of stores display for station under test.	Do table 1 (WP027 21).
aj. Close suspension hooks on the station being checked.	4. Arming wire can be released manually.	Replace arming solenoid or ZRF arming unit (A1-F18AC-740-300, WP028 00).
ak. On master arm control panel assembly, set MASTER switch to SAFE.	GO light on AWM-54 comes on and remains on until TEST switch is released.	Do table 3 (WP029 02).
al. On master arm control panel assembly, press and release A/G switch.	1. SAFE displayed on RDDI.	Do table 2 (WP010 17).
am. On the right DDI, deselect HPD.	2. ARMAMENT OVERRIDE switch disengages.	Do table 3 (WP010 17).
an. On proximity switch control, set MAIN GEAR NOSE GEAR and GEAR UPLOCK switches to NORM.	A/G indicator light goes off.	Do table 1 (WP010 32).
ao. On the GND PWR control panel, position switch 3 to AUTO.	On right DDI, HPD is unboxed and X is removed.	Station 2: Do table 1 (WP029 09). Station 3: Do table 2 (WP029 09). Station 7: Do table 3 (WP029 09). Station 8: Do table 4 (WP029 09).
	Ground safety handle on bomb rack moves to LOCKED.	Do table 1A (WP021 00).

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>6. NORMAL RELEASE PROCEDURE.</p> <p>a. On simulator test set, press and release MASTER REST.</p> <p>b. On simulator test set, press and release PROGRAM SELECT switches until 02 is displayed.</p> <p>c. On simulator test set, press and release ENTER switch.</p> <p>d. On simulator test set, press and release PROGRAM SELECT switches until 02 is displayed.</p> <p>e. On simulator test set, press and release ENTER switch.</p> <p>f. On the GND PWR control panel, position and hold switch 3 to B ON for 3 seconds.</p> <p>g. On the left DDI, press and release the MENU pushbutton until the BIT pushbutton option is displayed.</p>	<p>Main menu displayed on simulator test set.</p> <p>Simulator test set display 02.</p>	<p>Replace test set.</p> <p>Replace test set.</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>If “3 PH AC PWR WAS NOT REMOVED ON STA DESELECT” does not appear on the test set display, continue the test. No fault has occurred.</p> <p>If the simulator test set displays “3 PH AC PWR WAS NOT REMOVED ON STA DESELECTED” other than noted in this procedure actuate and release the test set ENTER switch and continue test.</p> <p>After completion of Initiated Built-In Test (BIT), 1, 2 and 3 switches are left at B ON to continue with this test.</p> <p>If a malfunction occurs during this test, make sure circuit breakers shown in WP011 00 are closed.</p>		
<p>h. Do Initiated Built-In Test steps 3 and 4 (WP009 00).</p>	<p>After successful completion of BIT, simulator test set displays 3 PH AC PWR WAS NOT REMOVED ON STA DESELECT.</p>	<p>Repair or replace simulator test set.</p>

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
i. On RDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed.	1. Menu display appears on RDDI.	Replace right Digital Display Indicator (A1-F18AC-745-300, WP004 00).
	2. Simulator test set displays, 3 PH AC PWR NOT REMOVED PRIOR TO DESELECT.	Repair or replace simulator test set.
j. On RDDI, press STORES pushbutton switch.	Harpoon stores display with 1 HPD or 1 THPD in wing form appears on RDDI. SAFE is on.	Station 2: Do table 1 (WP029 09). Station 3: Do table 2 (WP029 09). Station 7: Do table 3 (WP029 09). Station 8: Do table 4 (WP029 09).
<p style="text-align: center;"><b>NOTE</b></p> <p>If TEST is displayed, do not proceed to next step until TEST is removed from wingform.</p>		
k. On simulator test set, press and release MASTER RESET switch.	Main menu displayed on simulator test set.	Replace test set.
l. On simulator test set, press and release PROGRAM SELECT switches until 02 is displayed.	02 displayed on simulator test set.	Replace test set.
m. On simulator test set, press and release ENTER switch.		
n. On simulator test set, press and release PROGRAM SELECT switches until 01 is displayed.		
o. On simulator test set, press and release ENTER switch.		
p. On simulator test set, press and release PROGRAM SELECT switches until 01 is displayed.		
q. On simulator test set, press and release ENTER switch.	Simulator test set displays: MSL ENBL-F.	Repair or replace simulator test set.
r. On simulator test set, press and release PROGRAM SELECT switches until 09 is displayed.		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>s. On simulator test set, press and release ENTER switch.</p> <p>t. On simulator test set, press and release PROGRAM SELECT switches until 02 is displayed.</p> <p>u. On simulator test set, press and release ENTER switch.</p> <p>v. Disconnect W1P2 of W1 from breech test adapter.</p> <p>w. Connect W1P2 of W1 to auxiliary breech test adapter.</p> <p>x. On proximity switch control set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>y. On master arm control panel assembly, set MASTER switch to ARM.</p> <p>z. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>aa. On master arm control panel assembly, press and release A/G switch.</p>	<p>On simulator test set:</p> <p>3 PH-AC A*B*C DC WARMUP STATION DESELECT-NO GO MGU/SKR HTR PWR-NO GO BATTERY HTR PWR MISSILE PRESENT-GO MISSILE SAFE-GO</p> <p>SAFE displayed on RDDI.</p> <p>1. Switch remains engaged.</p> <p>2. ARM is displayed on RDDI.</p> <p>3. RDY displayed under HPD or THPD on RDDI.</p> <p>1. A/G indicator light comes on.</p> <p>2. Ground safety handle on bomb rack moves to UNLOCKED.</p>	<p>Repair or replace simulator test set.</p> <p>Do table 2 (WP010 17).</p> <p>Do table 1 (WP012 00).</p> <p>Do table 1 (WP010 17).</p> <p>Station 2: Do table 1 (WP029 09). Station 3: Do table 2 (WP029 09). Station 7: Do table 3 (WP029 09). Station 8: Do table 4 (WP029 09).</p> <p>Do table 1 (WP010 34).</p> <p>Do table 1A (WP021 00).</p>

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
ab. On RDDI, press and release HPD or THPD pushbutton switch.	<p>1. HPD or THPD boxed. RDY displayed under HPD or THPD on RDDI.</p> <p>2. 1 HPD or 1 THPD boxed in wingform and RDY displayed for station under test.</p> <p>3. On simulator test set:</p> <p>3 PH-AC A*B*C-GO STATION SELECT MGU/SKR HTR PWR-NO GO BATTERY HTR PWR-NO GO</p>	<p>Station 2: Do table 1 (WP029 09). Station 3: Do table 2 (WP029 09). Station 7: Do table 3 (WP029 09). Station 8: Do table 4 (WP029 09).</p> <p>Station 2: Do table 1 (WP029 03) or table 1 (WP029 05). Station 3: Do table 2 (WP029 03) or table 1 (WP029 05). Station 7: Do table 1 (WP029 04) or table 1 (WP029 06). Station 8: Do table 2 (WP029 04) or table 2 (WP029 06).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Do not proceed with this test until timing is removed from the right DDI.</p>		
ac. On AWM-54, set FCTN selector switch to S/V.		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If any step in the procedure below fails, do AWM-54 self test before doing troubleshooting. Adapter must be removed from breech to do self test.</p>		
ad. On AWM-54, press and hold TEST switch.	GO light on AWM-54 comes on.	Replace AWM-54.
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">PROX FUZE SEL light comes on if safety disable is selected for a training harpoon (THPD).</p>		
ae. On aircraft controller grip assembly, press and after 5 seconds release A/G weapon release switch.	1. GO light on AWM-54 remains on.	On nose wheelwell Digital Display Indicator, read and record maintenance code display (A1-F18AC-LMM-000). If maintenance codes 072, 073, 077, 078 or 085 are displayed, do table 1 (WP010 00).



Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
af. On AWM-54, release TEST switch.	<p>2. HPD or THPD boxed with not ready X through it, RDY removed and WFAIL displayed under 1 HPD or 1 THPD in wingform on RDDI for station under test.</p> <p>3. On simulator test set:</p> <p>After 2 seconds,</p> <p>MISSILE ENABLED DISCRETE FAULTED</p> <p>GO light on AWM-54 goes off.</p>	<p>Station 2: Do table 1 (WP029 09). Station 3: Do table 2 (WP029 09). Station 7: Do table 3 (WP029 09). Station 8: Do table 4 (WP029 09).</p> <p>Do table 4 (WP029 02).</p> <p>Replace AWM-54.</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>If ENTER is held too long, the required display will be stepped over and cannot be recalled. If necessary, repeat test from step 6w.</p>		
ag. On simulator test set, momentarily press and release ENTER switch.	<p>On simulator test set:</p> <p>3 PH-AC A*B*C-NO GO DC WARMUP PWR-NO GO STATION DESELECT-DESELECT ITL MGU/SKR HTR PWR-NO GO BATTERY HTR PWR-NO GO MISSILE PRESENT-PRESENT MISSILE UNSAFE-UNSAFE ABORT RESPONSE SENT</p>	<p>Station 2: Do table 1 (WP029 03) or table 1 (WP029 07). Station 3: Do table 2 (WP029 03) or table 2 (WP029 07). Station 7: Do table 1 (WP029 04) or table 1 (WP029 08). Station 8: Do table 2 (WP029 04) or table 2 (WP029 08).</p>
ah. On master arm control panel assembly, set MASTER switch to SAFE.	<p>1. SAFE displayed on RDDI.</p> <p>2. ARMAMENT OVERRIDE switch disengages.</p>	<p>Do table 2 (WP010 17). Do table 3 (WP010 17).</p>
ai. On master arm control panel assembly, press and release A/G switch.	A/G indicator light goes off.	Do table 1 (WP010 32).
aj. On proximity switch control, set MAIN GEAR NOSE GEAR and GEAR UPLOCK switches to NORM.	Ground safety handle on bomb rack moves to LOCKED.	Do table 1A (WP021 00).

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>ak. On RDDI, press 1 HPD or 1 THPD pushbutton switch.</p> <p>7. AUXILIARY RELEASE PROCEDURES.</p> <p>a. Disconnect W1P2 of W1 from breech test adapter.</p> <p>b. Connect W1P2 of W1 to auxiliary breech test adapter.</p> <p>c. On proximity switch control set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>d. On master arm control panel assembly, set MASTER switch to ARM.</p> <p>e. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>f. On master arm control panel assembly, press and release A/G switch.</p> <p>g. On RDDI, press and release HPD or THPD pushbutton switch.</p>	<p>SAFE displayed on RDDI.</p> <p>1. Switch remains engaged.</p> <p>2. ARM is displayed on RDDI.</p> <p>3. RDY displayed under HPD or THPD on RDDI.</p> <p>1. A/G indicator light comes on.</p> <p>2. Ground safety handle on bomb rack moves to UNLOCKED.</p> <p>1. HPD or THPD boxed. RDY displayed under HPD or THPD on RDDI.</p> <p>2. 1 HPD or 1 THPD boxed in wingform and RDY displayed for station under test.</p>	<p>Do table 2 (WP010 17).</p> <p>Do table 1 (WP012 00).</p> <p>Do table 1 (WP010 17).</p> <p>Station 2: Do table 1 (WP029 09). Station 3: Do table 2 (WP029 09). Station 7: Do table 3 (WP029 09). Station 8: Do table 4 (WP029 09).</p> <p>Do table 1 (WP010 34).</p> <p>Do table 1A (WP021 00).</p> <p>Station 2: Do table 1 (WP029 09). Station 3: Do table 2 (WP029 09). Station 7: Do table 3 (WP029 09). Station 8: Do table 4 (WP029 09).</p>

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
	3. On simulator test set:  3 PH-AC A*B*C-GO STATION SELECT MGU/SKR HTR PWR-NO GO BATTERY HTR PWR-NO GO	Station 2: Do table 1 (WP029 03) or table 1 (WP029 05). Station 3: Do table 2 (WP029 03) or table 1 (WP029 05). Station 7: Do table 1 (WP029 04) or table 1 (WP029 06). Station 8: Do table 2 (WP029 04) or table 2 (WP029 06).
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Do not proceed with this test until timing is removed from the right DDI.</p>		
h. On AWM-54, set FCTN selector switch to S/V.		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If any step in the procedure below fails, do AWM-54 self test before doing trouble-shooting. Adapter must be removed from breech to do self test.</p>		
i. On AWM-54, press and hold TEST switch.	GO light on AWM-54 comes on.	Replace AWM-54.
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">PROX FUZE SEL light comes on if safety disable is selected for a training harpoon (THPD).</p>		
j. On aircraft controller grip assembly, press and after 5 seconds release A/G weapon release switch.	1. GO light on AWM-54 remains on.   2. HPD or THPD boxed with not ready X through it, RDY removed and WFAIL displayed under 1 HPD or 1 THPD in wingform on RDDI for station under test.  3. On simulator test set:  After 2 seconds,  MISSILE ENABLED DISCRETE FAULTED	On nose wheelwell Digital Display Indicator, read and record maintenance code display (A1-F18AC-LMM-000). If maintenance codes 072, 073, 077, 078 or 085 are displayed, do table 1 (WP010 00).  Station 2: Do table 1 (WP029 09). Station 3: Do table 2 (WP029 09). Station 7: Do table 3 (WP029 09). Station 8: Do table 4 (WP029 09).  Do table 4 (WP029 02).

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
k. On AWM-54, release TEST switch.	GO light on AWM-54 goes off.	Replace AWM-54.
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If ENTER is held too long, the required display will be stepped over and cannot be recalled. If necessary, repeat test from step 6ah.</p>		
l. On simulator test set, momentarily press and release ENTER switch.	On simulator test set:  3 PH-AC A*B*C-NO GO DC WARMUP PWR-NO GO STATION DESELECT-DESELECT ITL MGU/SKR HTR PWR-NO GO BATTERY HTR PWR-NO GO MISSILE PRESENT-PRESENT MISSILE UNSAFE-UNSAFE ABORT RESPONSE SENT	Station 2: Do table 1 (WP029 03) or table 1 (WP029 07). Station 3: Do table 2 (WP029 03) or table 2 (WP029 07). Station 7: Do table 1 (WP029 04) or table 1 (WP029 08). Station 8: Do table 2 (WP029 04) or table 2 (WP029 08).
m. On master arm control panel assembly, set MASTER switch to SAFE.	1. SAFE displayed on RDDI.  2. ARMAMENT OVERRIDE switch disengages.	Do table 2 (WP010 17).  Do table 3 (WP010 17).
n. On master arm control panel assembly, press and release A/G switch.	A/G indicator light goes off.	Do table 1, (WP010 32).
o. On proximity switch control, set MAIN GEAR NOSE GEAR and GEAR UPLOCK switches to NORM.	Ground safety handle on bomb rack moves to LOCKED.	Do table 1A (WP021 00).
p. On RDDI, press 1 HPD or 1 THPD pushbutton switch.		
8. SHUTDOWN.		
a. On LDDI and RDDI, set power switch to OFF.		
b. On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.		
c. Turn electrical power off (A1-F18AC-LMM-000).		

Table 1. Harpoon System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. Remove breech test adapters and disconnect simulator test set cable from harpoon jumper cable W56236.</p> <p>e. Disconnect harpoon jumper cable W56236 61P-W093 and 61P-W112 from pylon stores electrical disconnect panel.</p> <p>f. Remove harpoon jumper cable W56236 from pylon and close door 502 (A1-F18AC-LMM-010).</p> <p>g. Disconnect simulator test set ground strap.</p> <p>h. Disconnect P1 of power cable from TS-3519D/DSM simulator test set.</p> <p>i. Stow power cable and ground strap in cover and install cover on simulator test set.</p> <p>j. Remove electrical power (A1-F18AC-LMM-000).</p> <p>k. Disconnect proximity switch control (A1-F18AC-LMM-000).</p> <p>l. Disconnect ground intercommunications hookup (A1-F18AC-LMM-000).</p> <p>m. Close door 14R (A1-F18AC-LMM-010).</p> <p>n. Disconnect W1 cable from auxiliary breech test adapter and test set and stow.</p> <p>o. Install auxiliary breech cap assembly and chamber assemblies in breech of Aircraft Bomb Ejector Racks BRU-32( ).</p>		

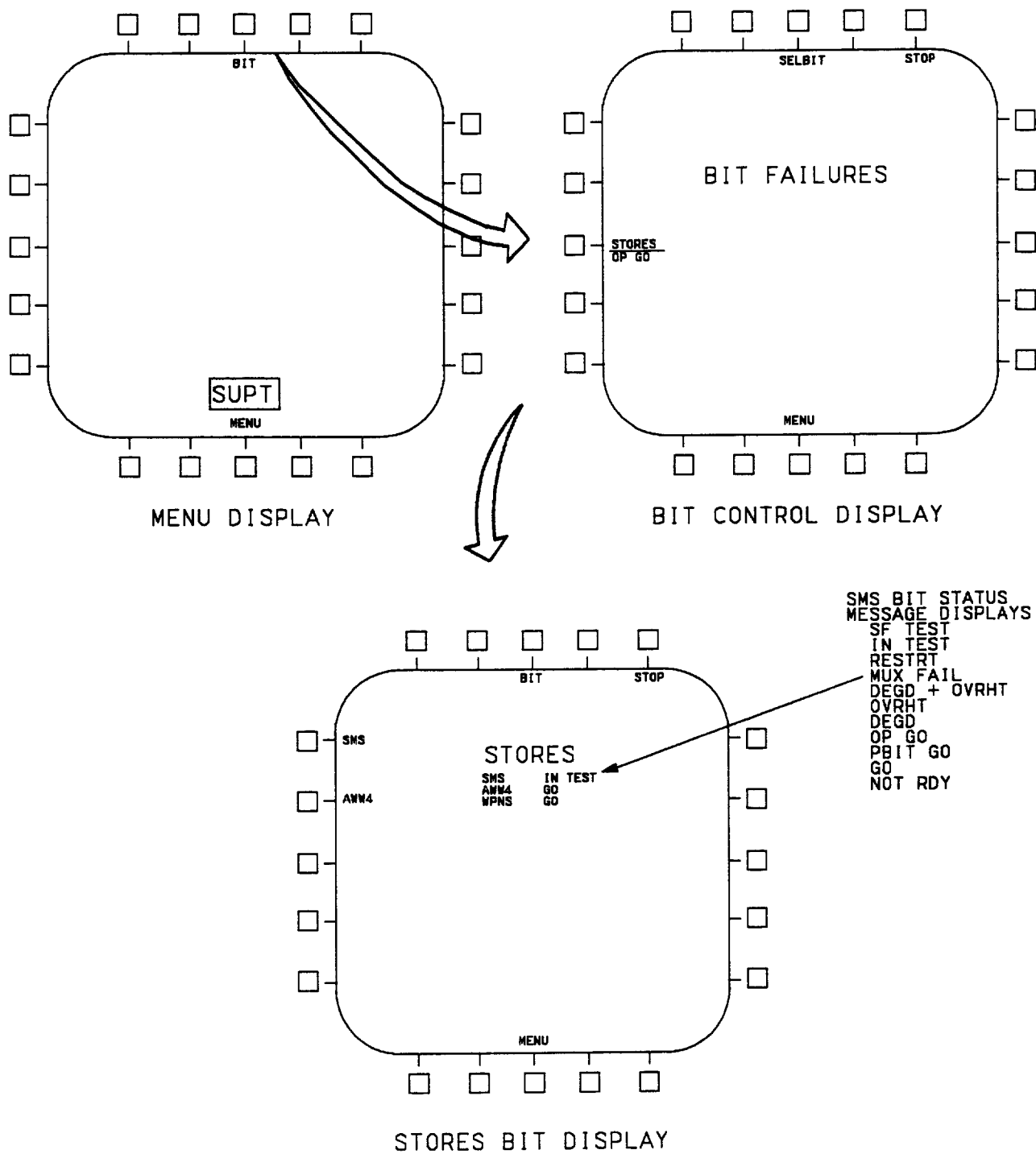


Figure 1. Test Displays (Sheet 1)

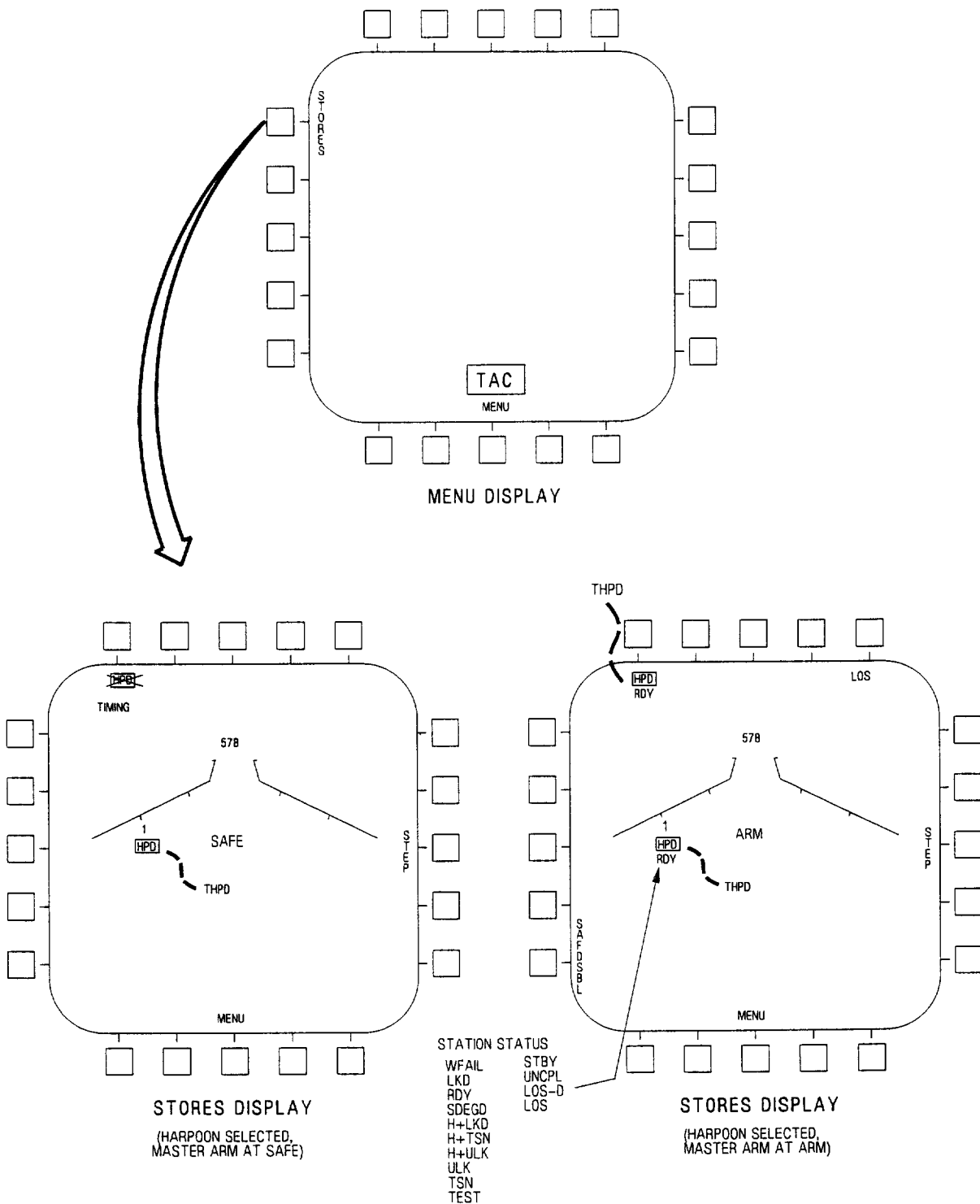


Figure 1. Test Displays (Sheet 2)

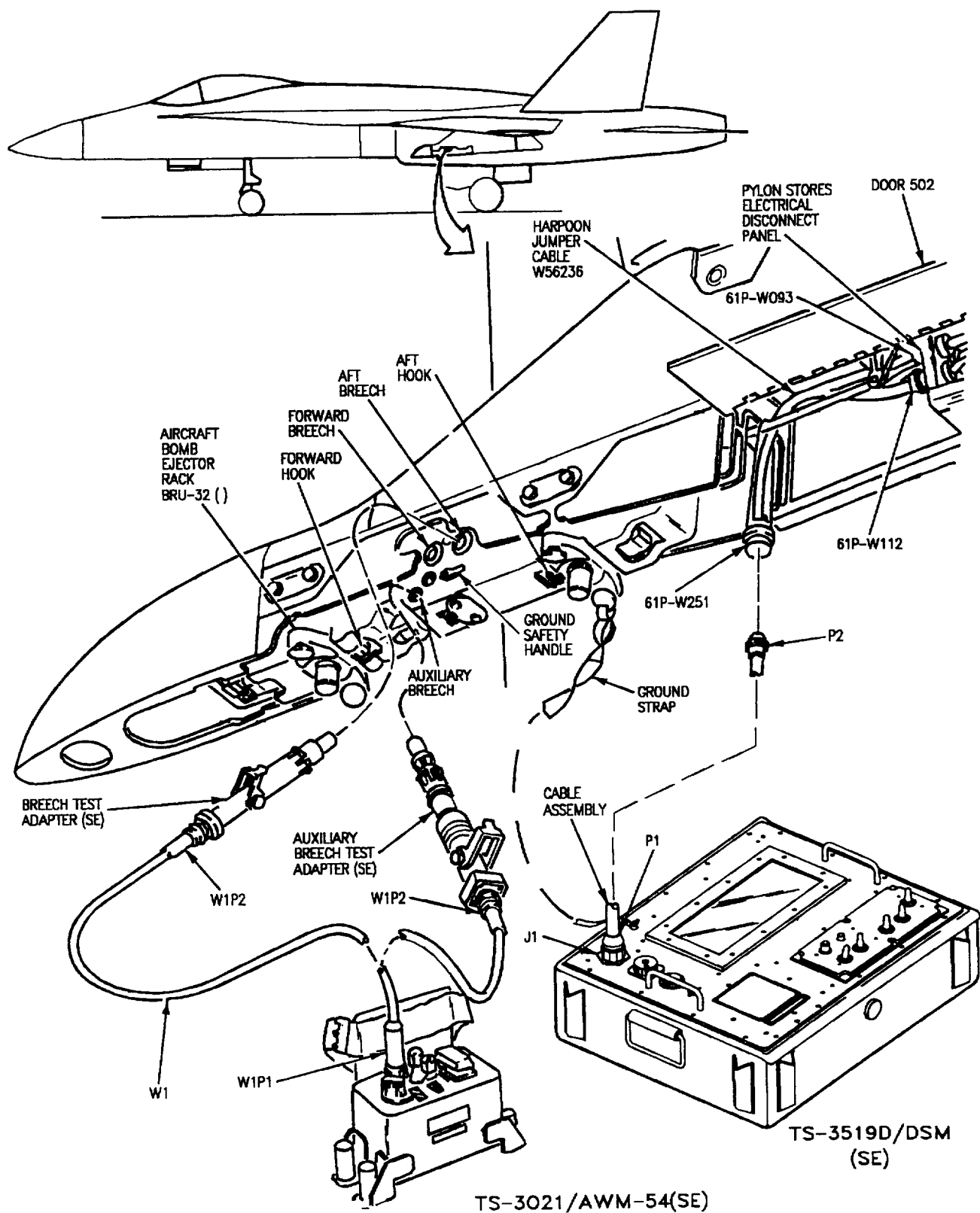


Figure 2. Test Equipment Hookup



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AIRCRAFT BOMB EJECTOR RACKS BRU-32( ) RELEASE CIRCUIT TEST

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Initiated Built-In Test .....	WP009 00
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

## Alphabetical Index

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Test Displays, Figure 1 .....	12
Test Equipment Hookup, Figure 2 .....	15

## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AAC 778	25 Oct 84	F/A-18A and F/A-18B Weapons Control System, Aircraft Bomb Ejector Rack (BRU-32/A), Modifi- cation of (ECP MDA-F/A-18-00129)	15 Jun 84	-
F/A-18 AAC 884	-	Incorporation of Zero Retention Force Arming Unit Into BRU-32/A and BRU-33/A Bomb Racks (ECP MDA-F/A-18-00247)	1 Jun 89	ECP Cover- age Only
F/A-18 AFC 57	-	Improved Aircraft Monitor And Control (AMAC), Installation of (ECP MDA-F/A-18-00087)	15 Jan 87	ECP Cover- age only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Release Circuit Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>		
All system components installed.		
<b>Related Systems Required</b>		
Avionics Cooling System Electrical System Maintenance Status Display and Recording System Mission Computer System Multipurpose Display Group		
<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
AN/AWM-54	Aircraft Firing Circuit Test Set	
74D750020-1001	Test - Breech Adapter	
-	Arming Wire Loop	
74D420030-1001	Proximity Switch Control	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
Component locations are shown in WP007 00. Test displays are shown in figure 1 and test equipment hookup is shown on figure 2.		
For the remainder of this test, test set refers to TS-3021/AWM-54. Test set is part of aircraft firing circuit test set AN/AWM-54.		
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).		
<div>WARNING</div>		
To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.		
a. Make sure electrical power is off (A1-F18AC-LMM-000).		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>b. Make sure all weapons are removed from aircraft.</p> <p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER) BRU-41 and BRU-42 if installed on aircraft.</p> <p>g. If gun is installed, make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>h. If gun is installed, make sure gun holdback mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>i. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove forward and aft chamber assemblies from breeches on Aircraft Bomb Ejector Racks BRU-32( ).</p> <p>b. Remove test set and W1 cable from Aircraft Firing Circuit Test Set AN/AWM-54 (fig 2).</p>		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>When a failed condition is indicated during test set self test, refer to NAVAIR 16-30AWM54-1 for troubleshooting. NAVAIR 16-30AWM54-1 is contained in aircraft firing circuit test set AN/AWM-54.</p>		
<p>c. Connect W1P1 of W1 cable to test set, W1P2 of W1 to breech test adapter, and do test set self test.</p> <p>3. PRELIMINARY.</p> <p>a. Close hooks on all Aircraft Bomb Ejector Racks BRU-32( ).</p> <p>b. Set ground safety handle to LOCKED.</p> <p>c. On Guide Missile Launcher LAU-116( ), make sure all launcher hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p> <p>d. Open door 14R (A1-F18AC-LMM-010).</p> <p>e. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 24 and FUZING N switch to 1 and T switch to 6 for station under test.</p> <p>f. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.</p>	<p>SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED.</p> <p>WPN SYS FAIL indicator is black (not latched).</p>	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If knob will not rotate, replace Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p> <p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p>
<p align="center"><b>WARNING</b></p> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>g. Connect proximity switch control (A1-F18AC-LMM-000).</p>		

**Table 1. Release Circuit Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>h. Apply electrical power (A1-F18AC-LMM-000).</p> <p>i. Connect ground intercommunications (A1-F18AC-LMM-000).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">After completion of Initiated Built-In Test (BIT), leave 1, 2 and 3 switches at ON and continue with this test.</p>		
<p>j. Do Initiated Built-In Test (WP009 00).</p> <p>4. PROCEDURE.</p> <p>a. On RDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>b. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>c. On master arm control panel assembly, press and release A/G switch.</p> <p>d. On RDDI, press STORES pushbutton switch.</p> <p>e. On 161925 AND UP; ALSO 161353 THRU 161924 AFTER AFC 57 RH console, make sure release consent dummy panel is installed.</p>	<p>Menu display appears on RDDI.</p> <p>1. A/G indicator light comes on.</p> <p>2. Ground safetyhandle moves to UNLOCKED.</p> <p>Stores display appears on RDDI.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>On F/A 18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).</p> <p>Do table 1 (WP021 00).</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>

Table 1. Release Circuit Test (Continued)



Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>Do steps 4f through 4k as required to complete PROG 5. If this program was previously selected it will be displayed when power is applied. If an X is displayed through PROG, the program is incomplete. If the X is removed from PROG, do step 4l.</p>		
f. On RDDI press 82B pushbutton switch.	<p>1. Selection indicated by box around 82B with X through 82B.</p> <p>2. Box appears around 1 82B in wing form of station being checked.</p>	<p>Enter correct store code on Armament Computer CP-1342/AYQ-9(V).</p> <p>Do table 5 (WP031 00).</p>
g. On RDDI, press PROG pushbutton switch.	PROG 5 appears on RDDI, X may appear through PROG.	Repeat this step until PROG 5 appears.
h. On RDDI, press UFC pushbutton switch.	<p>1.  Box appears around UFC on RDDI.</p> <p>2. Electronic Equipment Control C-10380/ASQ (equipment control) displays options listed below:</p> <p>a. QTY appears in option 1 display.</p> <p>b. MULT appears in option 2 display.</p> <p>c. INT appears in option 3 display.</p>	<p> Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>See Electronic Equipment Control C-10380/ASQ Lamp and Switch Test (A1-F18AC-741-200, WP004 00).</p>
i. On Electronic Equipment Control, C-10380/ASQ press option 1 select switch and do substeps below:	Option 1 select colon (:) appears on left side of option 1 display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
<p align="center"><b>NOTE</b></p> <p>If an error occurs while pressing keyboard switches, press keyboard CLR switch and repeat step.</p>		
(1) Press keyboard 1 switch.	1 is displayed on equipment control scratch pad display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
(2) Press keyboard ENT switch.	1 is displayed on QTY line on RDDI.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
j. On RDDI, press MFUZ pushbutton switch.	Fuzing options displayed on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
k. On RDDI, press N/T pushbutton switch.	1. N/T displayed on MFUZ line in program.  2. X removed from PROG 5 line on RDDI.	Enter correct fuze code on Armament Computer CP-1342/AYQ-9(V).  Select PROG 5, do steps 4f through 4k.
l. On master arm control panel assembly, set MASTER switch to ARM.	MASTER switch remains in ARM.	Replace Master Arm Control Panel Assembly (A1-F18AC-740-300, WP013 00).
m. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged.  2. ARM is displayed on RDDI.  3. RDY displayed under 82B on RDDI.	Do table 1 (WP012 00).  Do table 1 (WP010 17).  Do table 5 (WP031 00).
n. Install breech test adapter in forward breech.		
o. Insert arming wire loop in nose and tail arming units or latch nose and tail zero retention force (ZRF) arming units of station under test and press detent button on arming units.	Arming wire retained in arming units.	Replace arming unit (A1-F18AC-740-300, WP032 00).
p. On test set, set FCTN selector switch to F/C.		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>If any step in the procedure below fails, do test set self test before doing troubleshooting. Adapter must be removed from breech to do self test.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 10A: When troubleshooting, maintenance codes are displayed on Digital Display Indicator ID-2150/ASM-612 (nose wheelwell DDI, left side). Read and record maintenance codes.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 15C AND UP: When troubleshooting, maintenance codes are displayed on the cockpit Digital Display Indicator ID-1317( ) (LDDI and RDDI) in hexadecimal and on the Digital Display Indicator ID-2150/ASM (nose wheelwell DDI, left side) in decimal. Read and record maintenance codes displayed in the cockpit only.</p>		
q. On test set, press and hold TEST switch.		
r. On aircraft controller grip assembly, press and hold A/G weapon release switch.	GO light on test set comes on.	<p>1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black. If not, read and record maintenance codes in appropriate location. If maintenance codes 072, 073, 076, 077, 078, or 085 is displayed, do table 1 (WP010 00).</p> <p>2. Do table 1, WP031 00.</p>
s. On test set, release TEST switch.		
t. Open bomb rack hooks and tug arming wires sharply.		
u. On aircraft controller grip assembly, release A/G weapon release switch.		
v. Pull on arming wires.	Arming wire loop retained in arming unit.	<p>1. Do table 4, WP021 01.</p> <p>2. Adjust or replace arming unit (A1-F18AC-740-300, WP032 00).</p>
w. Close bomb rack hooks on station under test.	Arming wire loop retained in arming units.	Adjust or replace arming unit (A1-F18AC-740-300, WP032 00).
x. On test set, set FCTN switch to S/V.		



Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>y. On test set, press and release TEST switch.</p> <p>z. Remove breech test adapter from forward breech and install in aft breech.</p> <p>aa. On master arm control panel assembly, press and release A/G switch.</p> <p>ab. On proximity switch control, set MAIN GEAR, NOSE GEAR, and GEAR UPLOCK switches to NORM.</p>	<p>GO light on test set comes on and remains on until TEST switch is released.</p> <p>A/G indicator light goes off.</p> <p>Ground safety handle moves to LOCKED.</p>	<p>Do table 3 (WP031 00).</p> <p>On F/A-18A, do table 1, (WP010 32).</p> <p>On F/A-18B, do table 2, (WP010 32).</p> <p>Do table 1 (WP021 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">After 3 switch is set to B ON, allow Stores Management System 3 minutes to complete initial BIT.</p>		
<p>ac. On GND PWR control panel assembly, set 3 switch to AUTO, then B ON for 3 seconds.</p> <p>ad. On RDDI, press and release MENU pushbutton switch until STORES option is displayed.</p> <p>ae. On RDDI, press and release STORES pushbutton switch.</p> <p>af. On proximity switch control, set MAIN GEAR, and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p>	<p>Switch remains on (latched).</p> <p>Menu display appears on RDDI.</p> <p>Stores display appears on RDDI.</p>	<p>1. If switch unlatches in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).</p> <p>2. If 3 switch will not remain on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>


Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
ag. On master arm control panel assembly, press and release A/G switch.	1. A/G indicator light comes on.	On F/A-18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).
	2. Ground safety handle moves to UNLOCKED.	Do table 1 (WP021 00).
ah. On RDDI, press and release 82B pushbutton switch.	Box appears around 82B and 1 82B in wing form.	Do table 5 (WP031 00).
ai. On test set, set FCTN selector switch to F/C.		
<p style="text-align: center;"><b>NOTE</b></p> <p>If any step in the procedure below fails, do test set self test before doing troubleshooting. Adapter must be removed from breech to do self test.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 10A: When troubleshooting, maintenance codes are displayed on Digital Display Indicator ID-2150/ASM-612 (nose wheelwell DDI, left side). Read and record maintenance codes.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 15C AND UP: When troubleshooting, maintenance codes are displayed on the cockpit Digital Display Indicator ID-1317( ) (LDDI and RDDI) in hexadecimal and on the Digital Display Indicator ID-2150/ASM (nose wheelwell DDI, left side) in decimal. Read and record maintenance codes displayed in the cockpit only.</p>		
aj. On test set, press and hold TEST switch.		
ak. On aircraft controller grip assembly, press and hold A/G weapon release switch.	GO light on test set comes on.	1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM612 in nose wheelwell is black. If not, read and record maintenance codes in appropriate location. If maintenance codes 072, 073, 076, 077, 078, or 085 are displayed do table 1 (WP010 00).  2. Do table 1 (WP031 00).
al. On test set release TEST switch.		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>am. On aircraft controller grip assembly, release A/G weapon release switch.</p> <p>an. On test set set FCTN switch to S/V.</p> <p>ao. On test set press and release TEST switch.</p> <p>ap. Repeat steps 4n through 4p on remaining Aircraft Bomb Ejector Racks BRU-32( ) or do SHUTDOWN.</p> <p>5. SHUTDOWN.</p> <p>a. On master arm control panel assembly, set MASTER switch to SAFE.</p> <p>b. On master arm control panel assembly, press and release A/G switch.</p> <p>c. On proximity switch control, set MAIN GEAR NOSE GEAR and GEAR UPLOCK switches to NORM.</p> <p>d. On LDDI and RDDI, set power switch to OFF.</p> <p>e. On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.</p> <p>f. Remove electrical power (A1-F18AC-LMM-000).</p> <p>g. Disconnect proximity switch control (A1-F18AC-LMM-000).</p> <p>h. Disconnect ground intercommunications (A1-F18AC-LMM-000).</p> <p>i. Close door 14R (A1-F18AC-LMM-010).</p>	<p>GO light on test set comes on and remains on until TEST switch is released.</p> <p>1. SAFE displayed on RDDI.</p> <p>2. ARMAMENT OVERRIDE switch disengages.</p> <p>A/G indicator light goes off.</p> <p>Ground safety handle moves to LOCKED.</p>	<p>Do table 3 (WP031 00).</p> <p>Do table 2 (WP010 17).</p> <p>Do table 3 (WP010 17).</p> <p>On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).</p> <p>Do table 1 (WP021 00).</p>

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
j. Remove breech test adapter from breech.  k. Disconnect W1 cable from breech test adapter and test set and stow.  l. Install chamber assemblies in breech of Aircraft Bomb Ejector Racks BRU-32( ).		
<b>LEGEND</b>		
 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		

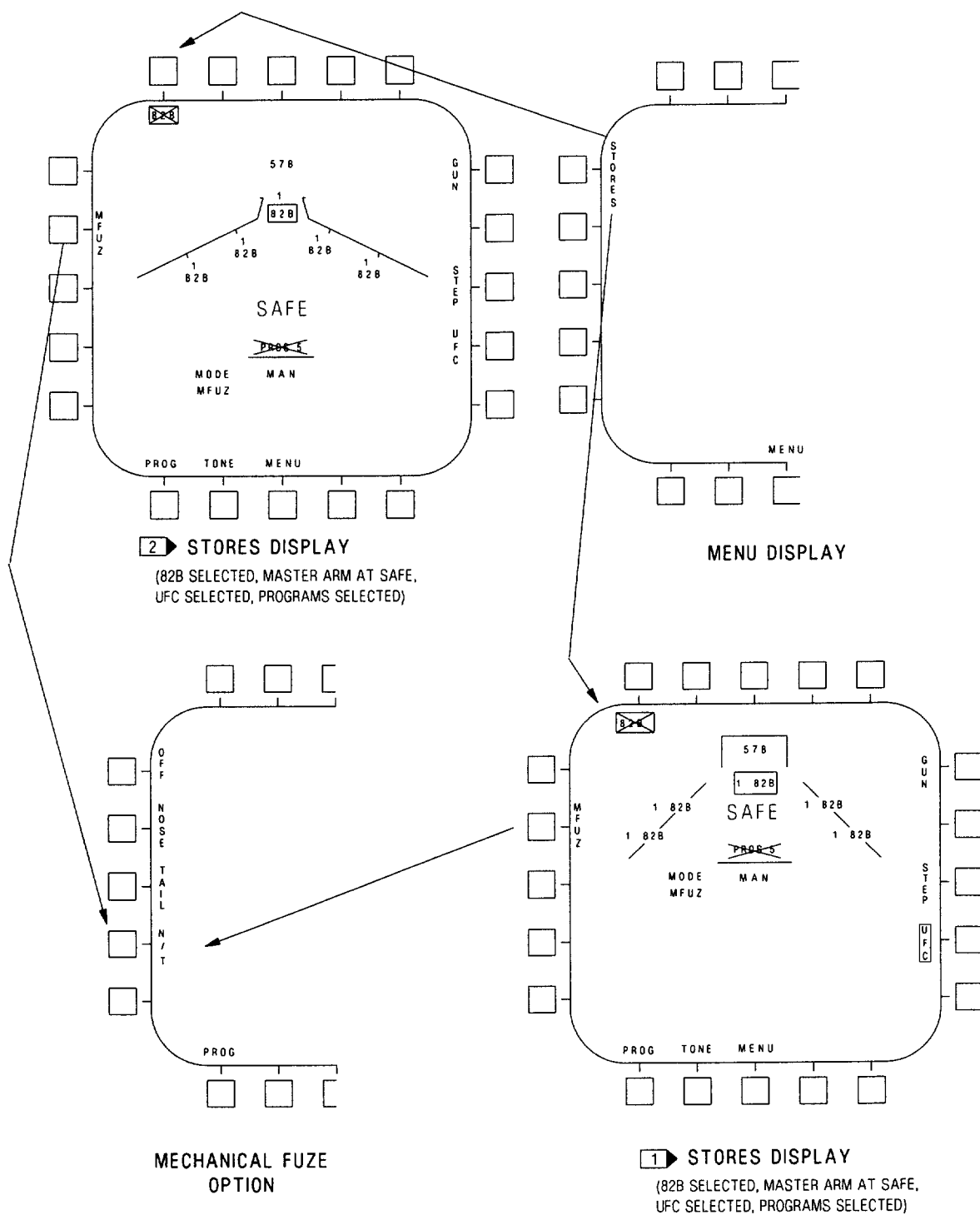
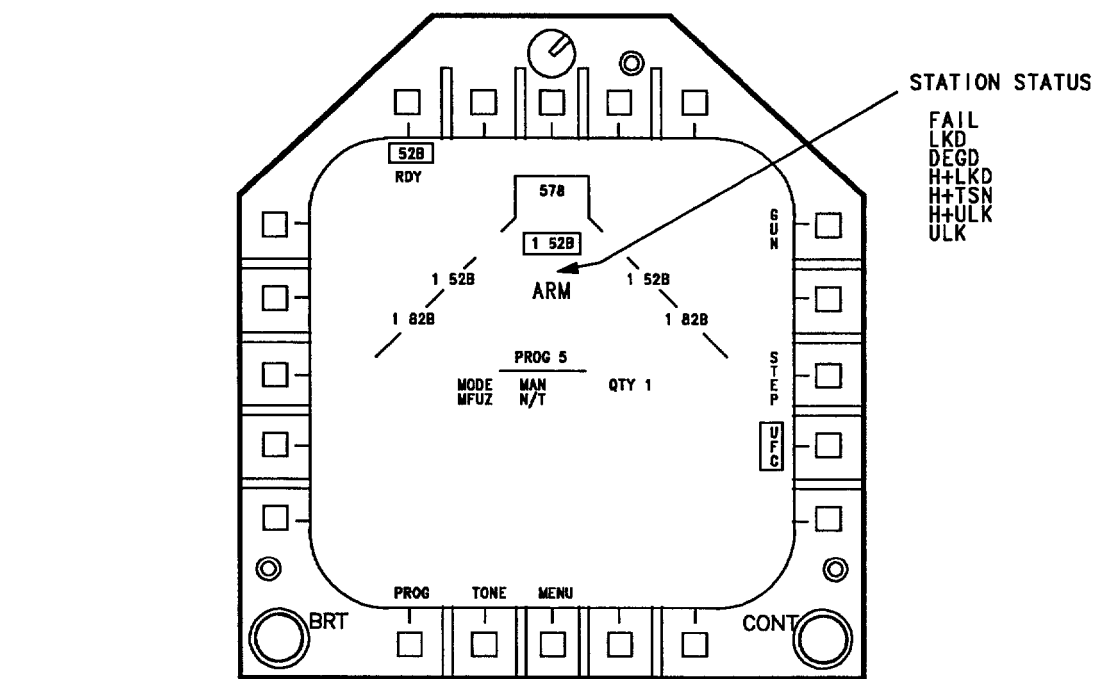
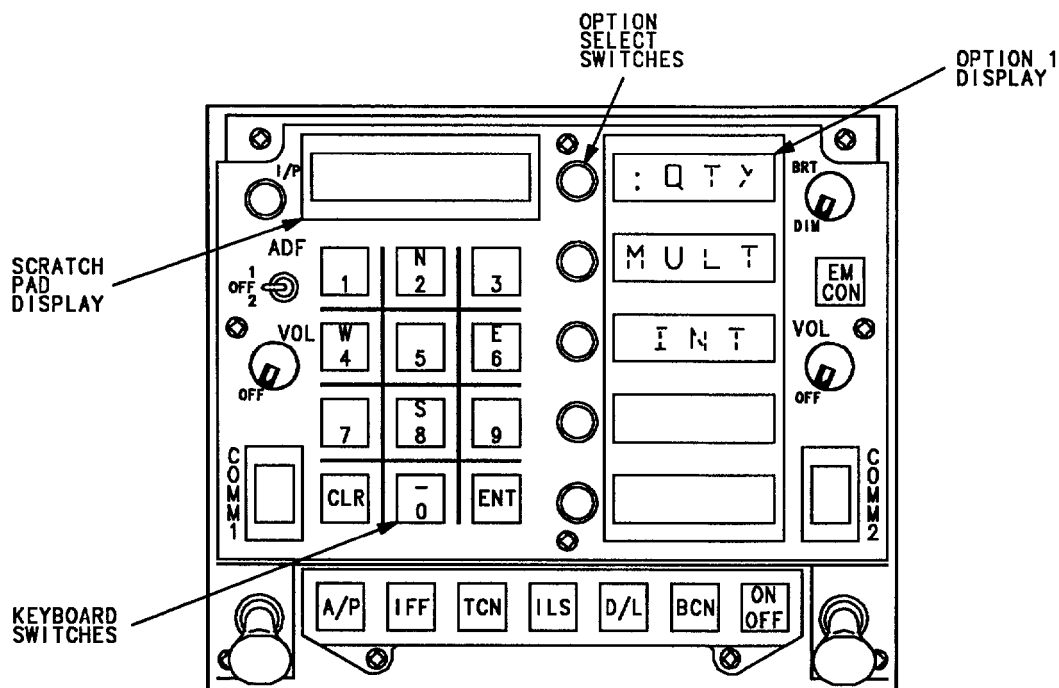


Figure 1. Test Displays (Sheet 1)



1 STORES DISPLAY  
(82B SELECTED, MASTER ARM AT ARM,  
QTY 1 SELECTED, PROGRAM 5 COMPLETE)



ELECTRONIC EQUIPMENT  
CONTROL C-10380/ASQ

Figure 1. Test Displays (Sheet 2)

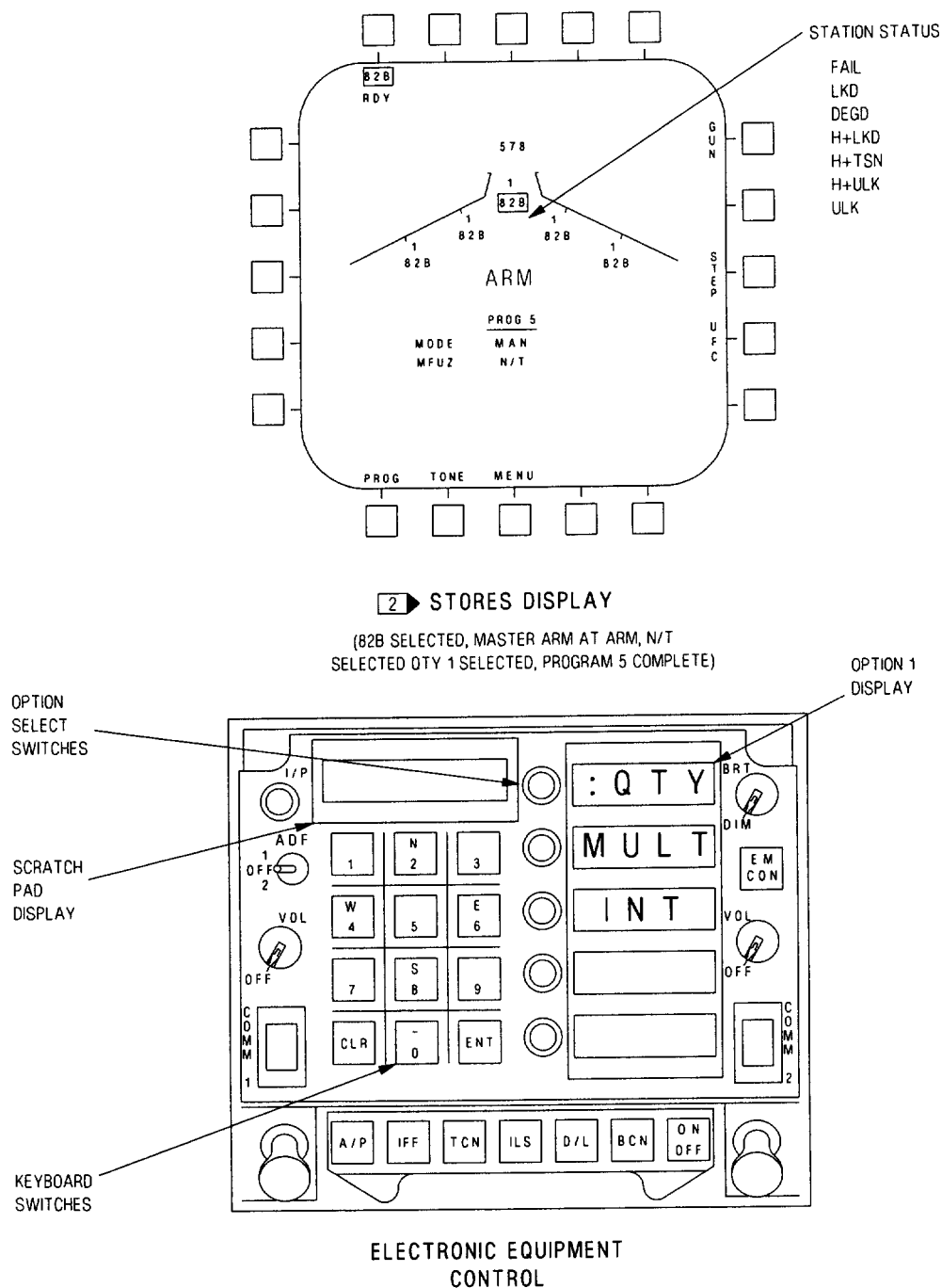


Figure 1. Test Displays (Sheet 3)

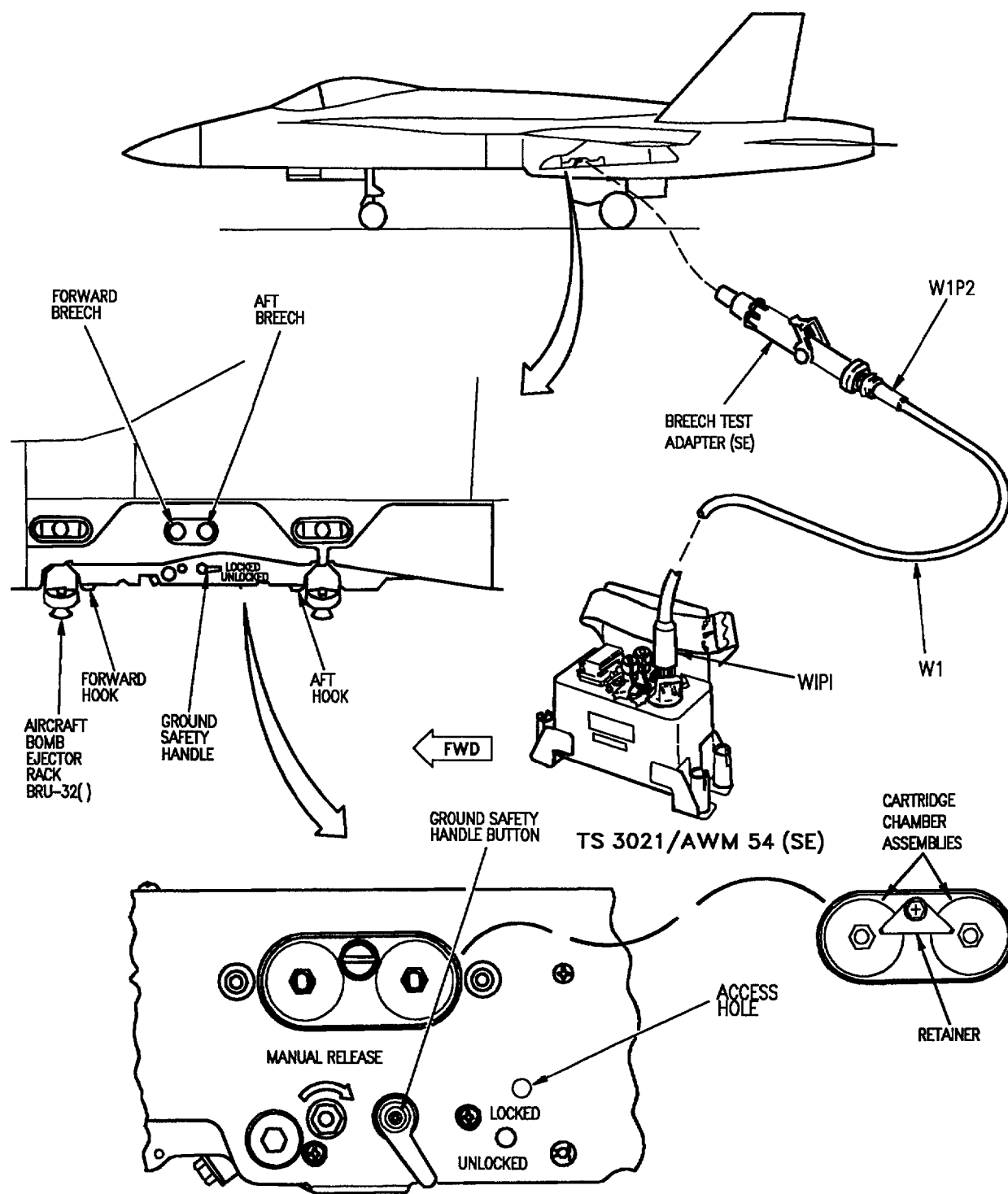


Figure 2. Test Equipment Hookup



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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TROUBLESHOOTING -AIRCRAFT BOMB EJECTOR RACK BRU-32( )**  
**RELEASE CIRCUIT TEST**  
**SUSPENSION AND RELEASE MECHANISMS**

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**Reference Material**

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010


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**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 57	-	Improved Aircraft Monitor And Control (AMAC), Installation Of (ECP MDA-F/A-18-00087)	15 Jan 87	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**Table 1. GO Light On Test Set Does Not Come On, A/G Weapon Release –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
<p>Master Arm Schematic (A1-F18AC-740-500, WP017 00) and Weapon Station 2, 3, 5, 7, 8 Bomb Schematic (A1-F18AC-740-500, WP060 00) and Release Consent Interconnect Schematic (A1-F18AC-740-500, WP004 01) may be used as aids when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Bomb Ejector Rack BRU-32( )</li> <li>Aircraft Fuselage Centerline Pylon SUU-62( )</li> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Release Consent Dummy Panel</li> <li>Connector Plate Assembly</li> <li>Fuselage Command Signal Encoder-Decoder Y-854/AYQ-9(V)</li> <li>Master Arm Control Panel Assembly</li> <li>Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> <li>Wing Pylon Relay Box Assembly</li> </ul>		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX1 scale.</p>		

**Table 1. GO Light On Test Set Does Not Come On, A/G Weapon Release – F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below		
<p style="text-align: center;"><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) If failure is on wing station, disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.		
(3) If failure is on centerline, open door 509 on centerline pylon (A1-F18AC-LMM-010).		
(4) Disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.		
(5) Connect jumper wires between 61P-W097A pins A and T and aircraft ground or 61P-Z105A pins A and T and aircraft ground.		
(6) Open door 14R (A1-F18AC-LMM-010).		
(7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 24.		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div>		
<p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(8) Connect proximity switch control (A1-F18AC-LMM-000).		
(9) Turn on electrical power (A1-F18AC-LMM-000).		
(10) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		

**Table 1. GO Light On Test Set Does Not Come On, A/G Weapon Release –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(11) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK to UP.		
(12) On master arm control panel assembly, press and release A/G switch.		
(13) On 161925 AND UP; ALSO 161353 THRU 161924 AFTER AFC 57 make sure release consent dummy panel is installed.		
(14) Do the release circuit test steps 4f thru 4k to select display and complete program for release. Table 1 (WP030 00).		
(15) On master arm control panel assembly, set MASTER switch to ARM.		
(16) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(17) On Aircraft Wing Pylon SUU-63( ), do substeps listed below.		
(a) Connect multimeter between 61P-W097A pins J and X (ground).		
(b) On aircraft controller grip assembly, press and release A/G weapon release switch and test for 28vdc at 61P-W097A pin J.		
(c) Repeat substeps (a) and (b) for 61P-W097A pin H and X (ground).		
(d) On 161353 THRU 161924; BEFORE AFC 57 did 28vdc exist at 61P-W097A pins J and H? .....	b	f
(e) On 161925 AND UP; ALSO 161353 THRU 161924 AFTER AFC 57 did 28vdc exist at 61P-W097A pins J and H? .....	o	f
(18) On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:		
(a) Connect multimeter between 61P-Z105A pins J and X (ground).		
(b) On controller grip assembly, press and release A/G weapon release switch and test for 28vdc at 61P-Z105A pin J.		
(c) Repeat substeps (a) and (b) for 61P-Z105A pins H and X (ground).		
(d) Did 28vdc exist at 61P-Z105A pins J and H? .....	h	f
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).		

**Table 1. GO Light On Test Set Does Not Come On, A/G Weapon Release –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder- Decoder KY-853/AYQ-9(V) for wing station that failed.</p> <p>(4) Does continuity exist from:</p> <p style="padding-left: 40px;">Aircraft ground to 61P-W097A pin X 61P-W012A pin X to 61P-W097A pin J 61P-W012A pin Y to 61P-W097A pin H? .....</p>	c	g
c. Do substeps listed below:		
<p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist from:</p> <p style="padding-left: 40px;">station 7: 52J-V067 pin 71 to aircraft ground station 8: 52J-V068 pin 71 to aircraft ground station 2: 52J-U062 pin 71 to aircraft ground station 3: 52J-U063 pin 71 to aircraft ground? .....</p>	e	d
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step z .....	-	-
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step z .....	-	-
f. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step z .....	-	-
g. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step z .....	-	-
h. Do substeps listed below:		
<p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-R016A from Fuselage Command Signal Encoder- Decoder KY-854/AYQ-9(V).</p> <p>(3) Does continuity exist from:</p> <p style="padding-left: 40px;">61P-R016A pin 53 to 61P-Z105A pin J 61P-R016A pin 42 to 61P-Z105A pin H Aircraft ground to 61P-Z105A pin X? .....</p>	i	l
i. Do substeps listed below:		
<p>(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.</p>		

**Table 1. GO Light On Test Set Does Not Come On, A/G Weapon Release – F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>(3) Does continuity exist from:</p> <p>61P-Z105A pin X to 61P-Z167 pin X  61P-Z105A pin J to 61P-Z167 pin J  61P-Z105A pin H to 61P-Z167 pin H? .....</p>	j	k
<p>j. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step z .....</p>	-	-
<p>k. Does continuity exist from:</p> <p>61P-R016A pin 53 to 61J-Z167 pin J  61P-R016A pin 42 to 61J-Z167 pin H? .....</p>	m	f
<p>l. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step z .....</p>	-	-
<p>m. Do substeps listed below:</p> <p>(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).</p> <p>(2) Disconnect 61P-R167 from 61J-Z167 on connector plate assembly.</p> <p>(3) Does continuity exist from:</p> <p>61P-R016A pin 53 to 61P-R167 pin J  61P-R016A pin 42 to 61P-R167 pin H  Aircraft ground to 61P-R167 pin X? .....</p>	e	n
<p>n. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step z .....</p>	-	-
<p>o. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-W258 from wing pylon relay box assembly.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) Connect multimeter between 61P-W258 pins A and B (ground).</p> <p>(5) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(6) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(7) Does 28vdc exist at 61P-W258 pin A? .....</p>	p	u
<p>p. Is this an outboard station? .....</p>	q	w

**Table 1. GO Light On Test Set Does Not Come On, A/G Weapon Release –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
q. On inboard stations, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove master arm control panel assembly (A1-F18AC-740-300, WP013 00).		
(3) Disconnect 52P-H075 from master arm control panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) Does 28vdc exist at 52P-H075 pin 3? .....	r	s
r. Do table 1, WP010 17 and do step z .....	-	-
s. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(3) Does continuity exist from:		
station 3: 52J-U063 pin 49 to 52P-H075 pin 30		
station 7: 52J-V067 pin 49 to 52P-H075 pin 30? .....	e	t
t. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) or replace master arm control panel assembly (A1-F18AC-740-300, WP013 00) and do step z .....	-	-
u. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing pylon that failed.		
(4) Does continuity exist from:		
aircraft ground to 61P-W097A pin X		
61P-W258 pin M to 61P-W097A pin J		
61P-W258 pin C to 61P-W097A pin H		
61P-W258 pin K to 61P-W012A pin X		
61P-W258 pin P to 61P-W012A pin Y		
61P-W097A pin T to 61P-W012A pin h		
61P-W097A pin A to 61P-W012A pin HH? .....	c	v
v. Repair wing pylon relay box assembly (A1-F18AC-740-300, WP035 00) and do step z ....	-	-

**Table 1. GO Light On Test Set Does Not Come On, A/G Weapon Release –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
w. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(3) Remove release consent dummy panel (A1-F18AC-740-300, WP003 00).		
(4) Disconnect 61P-J022C from release consent dummy panel.		
(5) Does continuity exist from:		
station 2: 52J-U062 pin 49 to 61P-J022C pin 4		
station 8: 52J-V068 pin 49 to 61P-J022C pin 2? .....	e	x
x. Does continuity exist from 61P-J022C pin 9 to 52P-H075 pin 30? .....	e	y
y. Malfunction is caused by one of the items listed below:		
(1) Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Release consent dummy panel (A1-F18AC-740-300, WP003 00).		
Do step z .....	-	-
z. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W097A		
(2) 61P-Z105A		
(3) 61P-R016A		
(4) 61P-W012A		
(5) 61P-Z167		
(6) 61P-R167		
(7) 61P-J022C		
(8) 61P-W258		
(9) 52P-H075		
(10) Door 14R		
(11) Door 504		



**Table 1. GO Light On Test Set Does Not Come On, A/G Weapon Release – F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(12) Door 509 and 510		
(13) Connector plate assembly		
(14) Master arm control panel assembly		
(15) Release consent dummy panel		
(16) Disconnect proximity switch control		
(17) Aircraft Wing Pylon SUU-63( ) .....	-	-

**Table 2. GO Light On Test Set Does Not Come On, A/G Weapon Release – F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Master Arm Schematic (A1-F18AC-740-500, WP017 00) and Weapon Station 2, 3, 5, 7, 8 Bomb/Mine Schematic (A1-F18AC-740-500, WP060 00) and Release Consent Interconnect Schematic (A1-F18AC-740-500, WP004 01) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Bomb Ejector Rack BRU-32( )	
Aircraft Fuselage Centerline Pylon SUU-62( )	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
Connector Plate Assembly	
Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	
Master Arm Control Panel Assembly	
Release Consent Dummy Panel	
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	
Wing Pylon Relay Box Assembly	

**Table 2. GO Light On Test Set Does Not Come On, A/G Weapon Release –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p style="text-align: center;"><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
a. Do substeps listed below		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) If failure is on wing station, disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.		
(3) If failure is on centerline, open door 509 on centerline pylon (A1-F18AC-LMM-010).		
(4) If failure is on centerline, disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.		
(5) Connect jumper wires between 61P-W097A pins A and T and aircraft ground or 61P-Z105A pins A and T and aircraft ground.		
(6) Open door 14R (A1-F18AC-LMM-010).		
(7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 24.		
<div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(8) Connect proximity switch control (A1-F18AC-LMM-000).		
(9) Turn on electrical power (A1-F18AC-LMM-000).		
(10) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		

**Table 2. GO Light On Test Set Does Not Come On, A/G Weapon Release –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(11) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK to UP.		
(12) On master arm control panel assembly, press and release A/G switch.		
(13) On 161925 and up; also 161353 thru 161924 after F/A-18 AFC 57, make sure release consent dummy panel is installed.		
(14) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.		
(15) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(16) Do the release circuit test steps 4g thru 4l to select display and complete program for release. Table 1 (WP053 00).		
(17) On master arm control panel assembly, set MASTER switch to ARM.		
(18) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(19) Does RDDI display ARM? .....	b	c
b. Do table 1 (WP010 17) .....	-	-
c. Is this a wing pylon station? .....	e	d
d. On Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(1) Connect multimeter between 61P-W097A pins.J and X (ground).		
(2) On aircraft controller grip assembly, press and release A/G weapon release switch and test for 28vdc at 61P-W097A pin J.		
(3) On master arm control panel assembly, press and release A/G switch (deselect A/G).		
(4) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to NORM and GEAR UPLOCK switch to NORM.		
(5) On master arm control panel assembly, press and release A/G switch (select A/G).		
(6) On master arm control panel assembly, press and release A/G switch (deselect A/G).		

**Table 2. GO Light On Test Set Does Not Come On, A/G Weapon Release –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(7) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(8) On master arm control panel assembly, press and release A/G switch (select A/G).		
(9) Repeat substeps (1) and (2) for 61P-W097A pin H and X (ground).		
(10) Did 28vdc exist at 61P-W097A pins.1 and H? .....	k	m
e. On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:		
(1) Connect multimeter between 61P-Z105A pins J and X (ground).		
(2) On controller grip assembly, press and release A/G weapon release switch and test for 28vdc at 61P-Z105A pin J.		
(3) Repeat substeps d(3) through d(8) and e(1), e(2) for 61P-Z105A pins H and X (ground).		
(4) Did 28vdc exist at 61P-Z105A pins J and H? .....	o	m
f. Do substeps listed below:		
(1) Disconnect 61P-W258 from wing pylon relay box assembly.		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) Connect multimeter between 61P-W258 pins A and B (ground).		
(4) On master arm control panel assembly, set MASTER switch to ARM.		
(5) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(6) Does 28vdc exist at 61P-W258 pin A? .....	g	v
g. Is this an outboard station? .....	h	z
h. On inboard stations, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove master arm control panel assembly (A1-F18AC-740-300, WP013 00).		
(3) Disconnect 52P-H075 from master arm control panel assembly.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) Does 28vdc exist at 52P-H075 pin 3? .....	b	i

**Table 2. GO Light On Test Set Does Not Come On, A/G Weapon Release –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
i. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(3) Does continuity exist from:		
station 3: 52J-U063 pin 49 to 52P-H075 pin 30		
station 7: 52J-V067 pin 49 to 52P-H075 pin 30? .....	l	j
j. Does continuity exist between 52P-W018 pin 49 and 61P-W258 pin A .....	u	ad
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000)		
(2) Does continuity exist between 61P-W097A pin X and aircraft ground? .....	ac	f
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ad .....	-	-
m. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step ad .....	-	-
n. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step ad .....	-	-
o. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000) .		
(2) Disconnect 61P-R016A from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(3) Does continuity exist from:		
61P-R016A pin 11 to 61P-Z105A pin A		
61P-R016A pin 78 to 61P-Z105A pin T		
61P-R016A pin 53 to 61P-Z105A pin J		
61P-R016A pin 42 to 61P-Z105A pin H		
Aircraft ground to 61P-Z105A pin X ? .....	p	r
p. Do substeps listed below:		
(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.		

**Table 2. GO Light On Test Set Does Not Come On, A/G Weapon Release –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(3) Does continuity exist from:</p> <p>61P-Z105A pin X to 61P-Z167 pin X  61P-Z105A pin A to 61P-Z167 pin A  61P-Z105A pin T to 61P-Z167 pin T  61P-Z105A pin J to 61P-Z167 pin J  61P-Z105A pin H to 61P-Z167 pin H? .....</p>	q	s
q. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step ad .....	-	-
r. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step ad .....	-	-
s. Do substeps listed below:		
(1) Remove connector plate assembly (A1-F18AC-740-300, WP052 00).		
(2) Disconnect 61P-R167 from 61J-Z167 on connector plate assembly.		
(3) Does continuity exist from:		
61P-R016A pin 11 to 61P-8167 pin A 61P-R016A pin 78 to 61P-8167 pin T 61P-R016A pin 53 to 61P-8167 pin J 61P-R016A pin 42 to 61P-8167 pin H Aircraft ground to 61P-8167 pin X ? .....	l	t
t. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step ad .....	-	-
u. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) or replace master arm control panel assembly (A1-F18AC-740-300, WP013 00) and do step ad .....	-	-
v. Do substeps listed below:		
(1) Repeat substeps d(3) through d(6).		
(2) Connect multimeter between 61P-W258 pin K and aircraft ground.		
(3) On aircraft controller grip assembly, press and release A/G weapon release switch and test for 28vdc at 61P-W258 pin K.		
(4) Repeat substeps v(1) through v(3) for 61P-W258 pin P.		
(5) Did 28vdc exist at 61P-W258 pins K and P? .....	w	x

**Table 2. GO Light On Test Set Does Not Come On, A/G Weapon Release –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>w. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing pylon that failed.</p> <p>(4) Does continuity exist from:</p> <p>61P-W258 pin K to 61P-W012A pin X</p> <p>61P-W258 pin P to 61P-W012A pin Y</p> <p>61P-W097A pin T to 61P-W012A pin h</p> <p>61P-W097A pin A to 61P-W012A pin HH? .....</p>	u	n
<p>x. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012A from Wing Pylon Signal Data Converter-Control CV-4257/AYK-22(V) for wing pylon that failed.</p> <p>(4) Does continuity exist between:</p> <p>61P-W258 pin M and 61P-W097A pin J</p> <p>61P-W258 pin C and 61P-W097A pin H? .....</p>	u	y
y. Repair wing pylon relay box assembly (A1-F18AC-740-300, WP035 00) and do step ae ...	-	-
<p>z. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(3) Remove release consent dummy Dummy Panel. (A1-F18AC-740-300, WP003 00).</p> <p>(4) Disconnect 61P-J022C from Release Consent Dummy Panel</p> <p>(5) Does continuity exist from:</p> <p>station 2: 52J-U062 pin 49 to 61P-J022C pin 4</p> <p>station 8: 52J-V068 pin 49 to 61P-J022C pin 2? .....</p>	l	aa
aa. Does continuity exist from 61P-J022C pin 9 to 52P-H075 pin 30? .....	l	ab

**Table 2. GO Light On Test Set Does Not Come On, A/G Weapon Release –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
ab. Malfunction is caused by one of the items listed below:		
(1) Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Release Consent Dummy Panel (A1-F18AC-740-300, WP003 00). Do step ad . . . . .	-	-
ac. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( )		
(2) Does continuity exist between 61P-W097A pin X and 52P-W018 pin 71? . . . . .	u	l
ad. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W097A		
(2) 61P-Z105A		
(3) 61P-R016A		
(4) 61P-W012A		
(5) 61P-Z167		
(6) 61P-R167		
(7) 61P-J022C		
(8) 61P-W258		
(9) 52P-H075		
(10) Doors 14R, 504, 509 and 510		
(11) Connector Plate Assembly		
(12) Master Arm Control Panel Assembly		
(13) Release Consent Dummy Panel		
(14) Disconnect proximity switch control		
(15) Aircraft Wing Pylon SUU-63( )		
(16) Disconnect Proximity Switch Control		
(17) Remove jumper wires (61P-W097A, pins A and T, 61P-Z105A pins A and T) . . . . .	-	-



**Table 3. GO Light On Test Set Does Not Come On, S/V Test Release**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 2, 3, 5, 7, 8 Bomb Schematic (A1-F18AC-740-500, WP060 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p>		
<p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Bomb Ejector Rack BRU-32( )</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Aircraft Wiring</p> <p>Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p> <p>Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="border: 2px solid black; padding: 5px; display: inline-block; margin-bottom: 10px;"><b>CAUTION</b></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p>		

**Table 3. GO Light On Test Set Does Not Come On, S/V Test Release (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.</p> <p>(3) Open door 509 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.</p> <p>(5) Connect jumper wires between 61P-W097A pins A and T and aircraft ground or 61P-Z105A pins A and T and aircraft ground.</p> <p>(6) Open door 14R (A1-F18AC-LMM-010).</p> <p>(7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 24.</p>		
<p style="text-align: center;"><b>WARNING</b></p> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> <p>(8) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(9) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(10) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</p> <p>(11) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK to UP.</p> <p>(12) On master arm control panel assembly, press and release A/G switch.</p> <p>(13) On 161925 AND UP; ALSO 161353 THRU 161924 AFTER AFC 57 make sure release consent dummy panel is installed.</p> <p>(14) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.</p>		

**Table 3. GO Light On Test Set Does Not Come On, S/V Test Release (Continued)**

Procedure	No	Yes
<p>(15) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(16) Do the release circuit test steps 4f thru 4k to select display and complete program for release. Table 1 (WP030 00).</p> <p>(17) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(18) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(19) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:</p> <p>(a) On aircraft controller grip assembly, press and release A/G weapon release switch.</p> <p>(b) Connect multimeter between 61P-W097A pins J and X (ground) or pin H and X (ground).</p> <p>(c) Does 28vdc exist at 61P-W097A pins J or H? ..... b c</p> <p>(20) On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:</p> <p>(a) On aircraft controller grip assembly, press and release A/G weapon release switch.</p> <p>(b) Connect multimeter between 61P-Z105A pins J and X (ground) or pin H and X (ground).</p> <p>(c) Does 28vdc exist at 61P-Z105A pins J or H? ..... b f</p> <p>b. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step o ..... - -</p> <p>c. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder- Decoder KY-853/AYQ-9(V) for wing station that failed.</p> <p>(4) Does continuity exist from:</p> <p>61P-W012A pin X to 61P-W097A pin J</p> <p>61P-W012A pin Y to 61P-W097A pin H? ..... e d</p>		

**Table 3. GO Light On Test Set Does Not Come On, S/V Test Release (Continued)**

Procedure	No	Yes
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step i . . .	-	-
e. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step o . . . . .	-	-
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-R016A from Fuselage Command Signal Encoder- Decoder KY-854/AYQ-9(V).		
(3) Does continuity exist from:		
61P-R016A pin 42 to 61P-Z105A pin H		
61P-R016A pin 53 to 61P-Z105A pin J? . . . . .	g	h
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step o . . . . .	-	-
h. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step o . . . . .	-	-
i. Repair wing pylon relay box assembly (A1-F18AC-740-300, WP035 00) and do step o . . . .	-	-
j. Do substeps listed below:		
(1) Disconnect 61P-W258 from wing pylon relay box assembly.		
(2) Does continuity exist between:		
61P-W258 pin M and 61P-W097A pin J		
61P-W258 pin C and 61P-W097A pin H		
61P-W258 pin P and 61P-W012A pin X		
61P-W258 pin K and 61P-W012A pin Y? . . . . .	d	e
k. Do substeps listed below:		
(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.		
(3) Does continuity exist between:		
61P-Z105A pin J and 61P-Z167 pin J		
61P-Z105A pin H and 61P-Z167 pin H? . . . . .	l	m
l. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step o . . . . .	-	-

**Table 3. GO Light On Test Set Does Not Come On, S/V Test Release (Continued)**

Procedure	No	Yes
m. Do substeps listed below:		
(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(2) Disconnect 61P-R167 from 61J-Z167 on connector plate assembly.		
(3) Does continuity exist between:		
61P-R167 pin J and 61P-R016A pin X		
61P-Z167 pin H and 61P-R016A pin Y? .....	g	n
n. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step o .....	-	-
o. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W097A		
(2) 61P-Z105A		
(3) 61P-R016A		
(4) 61P-W012A		
(5) Door 14R		
(6) Door 504		
(7) Door 509		
(8) Aircraft Wing Pylon SUU-63( )		
(9) 61P-W258		
(10) 61P-R167		
(11) 61P-Z167		
(12) Connector Plate Assembly		
(13) Door 510		
(14) Remove jumper wires (61P-W097A, T, 61P-Z105A, T)		
(15) Disconnect proximity switch control .....	-	-

**Table 4. Arming Units Fail to Hold Arming Wire Loop**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 3, 7, 8 Bomb/Mine Schematic and Mechanical Fuzing Schematic (A1-F18AC-740-500, WP060 00, WP075 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Fuselage Centerline Pylon SUU-62( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Arming Unit Connector Plate Assembly Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

Table 4. Arming Units Fail to Hold Arming Wire Loop (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
<p style="text-align: center;"><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) If failure is on wing station, disconnect 61P-W097A from Aircraft Bomb Ejector Rack BRU-32( ) on wing pylon.		
(3) If failure is on centerline, open door 509 on centerline pylon (A1-F18AC-LMM-010).		
(4) Disconnect 61P-Z105A from Aircraft Bomb Ejector Rack BRU-32( ) on centerline pylon.		
(5) Connect jumper wires between 61P-W097A pins A and T and aircraft ground or 61P-Z105A pins A and T and aircraft ground.		
(6) Open door 14R (A1-F18AC-LMM-010).		
(7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 24 and set FUZING N switch to 1 and T switch to 6.		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div>		
<p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(8) Connect proximity switch control (A1-F18AC-LMM-000).		
(9) Turn on electrical power (A1-F18AC-LMM-000).		

**Table 4. Arming Units Fail to Hold Arming Wire Loop (Continued)**

Procedure	No	Yes
(10) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
(11) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK to UP.		
(12) On master arm control panel assembly, press and release A/G switch.		
(13) On 161925 AND UP; ALSO 161353 THRU 161924 AFTER AFC 57 make sure release consent dummy panel is installed.		
(14) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.		
(15) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(16) Do the release circuit test steps 4f thru 4k to select display and complete program for release. Table 1 (WP030 00).		
(17) On master arm control panel assembly, set MASTER switch to ARM.		
(18) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(19) If failure is on Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(a) Connect multimeter between 61P-W097A pins a and N (ground).		
(b) On aircraft controller grip assembly, press and hold A/G weapon release switch and test for 28vdc at 61P-W097A pin a then release switch.		
(c) Repeat substeps (a) and (b) for 61P-W097A pin U and D (ground).		
(d) Did 28vdc exist at 61P-W097A pins a and U? .....	b	f
(20) If failure is on Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:		
(a) Connect multimeter between 61P-Z105A pins a and N (ground).		
(b) On controller grip assembly, press and hold A/G weapon release switch and test for 28vdc at 61P-Z105A pin a then release switch.		
(c) Repeat substeps (a) and (b) for 61P-Z105A pins U and D (ground).		
(d) Did 28vdc exist at 61P-Z105A pins a and U? .....	h	f



Table 4. Arming Units Fail to Hold Arming Wire Loop (Continued)

Procedure	No	Yes
<p>b. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder- Decoder KY-853/AYQ-9(V) for wing station that failed.</p> <p>(4) Does continuity exist from:</p> <p>61P-W012A pin GG to 61P-W097A pin U  61P-W012A pin c to 61P-W097A pin a  Aircraft ground and 61P-W097A pins D and N? .....</p>	c	g
<p>c. Do substeps listed below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist from:</p> <p>station 7: 52J-V067 pin 23 and 32 to aircraft ground  station 8: 52J-V068 pin 23 and 32 to aircraft ground  station 2: 52J-U062 pin 23 and 32 to aircraft ground  station 3: 52J-U063 pin 23 and 32 to aircraft ground? .....</p>	e	f
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step o .....	-	-
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step o .....	-	-
f. Replace arming unit (A1-F18AC-740-300, WP032 00)and do step o .....	-	-
g. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step o .....	-	-
<p>h. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-R016A from Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).</p> <p>(3) Does continuity exist from:</p> <p>61P-R016A pin 24 to 61P-Z105A pin a  61P-R016A pin 15 to 61P-Z105A pin U  Aircraft ground to 61P-Z105A pins D and N? .....</p>	i	l
<p>i. Do substeps listed below:</p> <p>(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).</p>		

**Table 4. Arming Units Fail to Hold Arming Wire Loop (Continued)**

Procedure	No	Yes
(2) Disconnect 61P-Z167 from 61J-Z167 on connector plate assembly.		
(3) Does continuity exist from:		
61P-Z105A pin a to 61P-Z167 pin a		
61P-Z105A pin N to 61P-Z167 pin N		
61P-Z105A pin U to 61P-Z167 pin U		
61P-Z105A pin D to 61P-Z167 pin D? .....	j	k
j. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00) and do step o .....	-	-
k. Does continuity exist from:		
Aircraft ground to 61J-Z167 pins D and N		
61P-R016A pin 24 to 61J-Z167 pin a		
61P-R016A pin 15 to 61J-Z167 pin U? .....	m	f
l. Replace Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step o .....	-	-
m. Do substeps listed below:		
(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(2) Disconnect 61P-R167 from 61J-Z167 on connector plate assembly.		
(3) Does continuity exist from:		
61P-R016A pin 24 to 61P-R167 pin a		
61P-R016A pin 15 to 61P-R167 pin U		
Aircraft ground to 61P-R167 pins D and N? .....	e	n
n. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step o .....	-	-
o. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W097A		
(2) 61P-Z105A		
(3) 61P-R016A		
(4) 61P-W012A		
(5) 61P-Z167		
(6) 61P-R167		
(7) Door 14R		
(8) Door 504		

**Table 4. Arming Units Fail to Hold Arming Wire Loop (Continued)**

Procedure	No	Yes
(9) Door 509 and 510		
(10) Connector plate assembly		
(11) Disconnect proximity switch control		
(12) Aircraft Wing Pylon SUU-63( ) .....	-	-

**Table 5. Status Not Displayed on DDI for Selected A/G Weapon**

<p align="center"><b>Support Equipment Required</b></p> <p align="center">None</p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p align="center">Bomb Avionic Interface Schematic (A1-F18AC-740-500, WP063 00) may be used as an aid when doing this procedure.</p> <p align="center">For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 Digital Display Indicator IP-1317( )</p>		
Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) On LDDI, press and release MENU pushbutton switch until STORES option is displayed.</p> <p>(2) ON LDDI, press STORES pushbutton switch.</p> <p>(3) On LDDI, press 82B pushbutton switch.</p> <p>(4) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(5) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p>		

**Table 5. Status Not Displayed on DDI for Selected A/G Weapon (Continued)**

Procedure	No	Yes
(6) Is display correct on LDDI? .....	b	c
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00)	-	-
c. Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-741-300, WP004 00) .....	-	-

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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TESTING - AGM-88 HARM RELEASE SYSTEM TEST**  
**SUSPENSION AND RELEASE MECHANISMS**

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**Reference Material**

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Initiated Built-In Test .....	WP009 00
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

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**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECF-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**Table 1. HARM Release System Test**

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>		
All system components installed.		

Table 1. HARM Release System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>Related Systems Required</b>		
Electrical Systems		
<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
1328AS1100	Aircraft Weapon Control Test Set (AN/AWM-92/A)	
74D420030-1001	Proximity Switch Control	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
Test results will be invalid if the following support equipment change code is not listed on the AN/AWM-92 Support Equipment Change Plate.		
Component locations are shown in WP007 00.		
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).		
<div>WARNING</div>		
To prevent injury or death of personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.		
a. Make sure electrical power is off (A1-F18AC-LMM-000).		
b. Make sure all weapons are removed from aircraft.		
c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.		

Table 1. HARM Release System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all Aircraft Guided Missile Launcher LAU-116( ) hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p> <p>g. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER) BRU-41 and BRU-42) if installed on aircraft.</p> <p>h. Make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>i. If gun is installed, make sure gun hold-back mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>j. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove W1 test cable, W2 power cable, W13 power adapter and W6 test cable from test set accessory container.</p> <p>b. Connect P2 of W2 power cable to J2 of AN/AWM-92 test set.</p> <p>c. Connect P1 of W2 power cable to P1 of W13 power adapter.</p>	<p>SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED.</p>	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If knob will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>

Table 1. HARM Release System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. Connect P2 of W13 power adapter to aircraft UTILITY PWR RECP 1J-G089 in nose wheelwell on left side.</p> <p>e. Connect P1 of W1 test cable to J1 of AN/AWM-92 test set.</p> <p>f. Connect P2 of W1 test cable to J3 of AN/AWM-92 test set.</p> <p>g. Close hooks on all Aircraft Bomb Ejector Racks BRU-32( ) and set ground safety handle to LOCKED.</p> <p>3. PRELIMINARY.</p> <p>a. Open door 14R (A1-F18AC-LMM-010).</p> <p>b. On Armament/Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 64 for station under test, set to 27 for remaining stations.</p> <p>c. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.</p>	<p>WPN SYS FAL indicator is black (not latched).</p>	<p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p>
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: fit-content;"> <b>WARNING</b> </div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>d. Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>e. Apply electrical power (A1-F18AC-LMM-000).</p> <p>f. Connect ground intercommunications (A1-F18AC-LMM-000).</p> <p>g. On SNSR pod control box panel assembly, make sure RADAR switch is OFF.</p>		



Table 1. HARM Release System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If a malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</p>		
h. On GND PWR control panel assembly, set and hold 1 and 2 switches to B ON for 3 seconds.	Switches remain on (latched).	<p>1. If switches unlatch in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).</p> <p>2. If no switches remain on, do GND PWR Switching System Test (A1-F18AC-420-200, WP006 00).</p> <p>3. If on but not all switches remain on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).</p>
i. On MC/HYD ISOL control panel assembly, set MC switch to NORM.		
j. On left and right Digital Display Indicator IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm-up. Adjust BRT and CONT for best display.	<p>1. LDDI and RDDI have displays and center pushbutton switch on bottom row is labeled MENU.</p> <p>2. LDDI has caution and advisories displayed.</p>	<p>1. No display on LDDI, F/A-18A, do table 1 (A1-F18AC-745-200, WP006 00) F/A-18B, do table 1 (A1-F18AC-745-200, WP007 00).</p> <p>2. No display on RDDI, F/A-18A, do table 2 (A1-F18AC-745-200, WP006 00) F/A-18B, do table 2 (A1-F18AC-745-200, WP007 00).</p> <p>3. If STANDBY is displayed, F/A-18A, do table 2 (A1-F18AC-745-200, WP004 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP005 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator IP-1317( ) (A1-F18-745-300, WP004 00).</p>
4. TEST SET, SELF TEST AND HARM INTERFACE.		

Table 1. HARM Release System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
a. On test set, set AC POWER switch to ON and do substeps listed below for self test:	<p>1. Test set, AC POWER light comes on and remains on.</p> <p>2. Test set keyboard (key), RESET, LAMP TEST, KYBD TEST, ACFT TYPE, CLEAR and 0 through 9 lights come on.</p>	<p>Do table 1 (WP031 02).</p> <p>Repair or replace test set.</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Test set key, RESET light remains on throughout test.</p>		
(1) Set INTENSITY switch to HIGH.		
(2) Press LAMP TEST key.	All key lights come on, one section of 12 keys at a time. Test set VALUE display, 0 through 9 comes on.	Repair or replace test set.
(3) Press KYBD TEST key.	Each key light comes on and goes off when pressed.	Repair or replace test set.
(4) Press ACFT TYPE key.	Test set key, RUN and RESET lights come on.	Repair or replace test set.
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Test Set self test runs approximately 1 minute. At start of test, observe that the test set displays most current required SEC number for 15 seconds then cycles through the test. At end of test 0 appears in the STEP and VALUE display and key UUT GO light comes on.</p>		
(5) Press RUN key.	Test set STEP display, cycles through test steps. The key TIP light comes on during test.	Repair or replace test set.
b. Disconnect P1 and P2 of W1 test cable from AN/AWM-92 test set.		
c. Connect P1 of W6 test cable to J1 of AN/AWM-92 test set.		
d. Connect P2 of W6 test cable to 61P-W098R of LAU-118 HARM jumper cable W56228.		

Table 1. HARM Release System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
e. On test set, press RESET key.	Test set key, LAMP TEST, KYBD TEST, ACFT TYPE, CLEAR and 0 through 9 lights come on.	Repair or replace test set.
<p style="text-align: center;"><b>NOTE</b></p> <p>If improper entry is made press CLEAR key and repeat step.</p>		
f. Press 1 and 8 keys.	Test set, VALUE display indicates 18.	Repair or replace test set.
g. Press ACFT TYPE key.	Test set key, RUN light comes on.	Repair or replace test set.
h. Press RUN key.	Test set key, MNL ACTN and RUN lights come on. STEP display indicates 100 and VALUE display indicates 1.	Repair or replace test set.
i. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.	Switch remains on (latched).	If switch unlatches in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).
<p style="text-align: center;"><b>NOTE</b></p> <p>In the following procedures, the RCL FAIL key recalls the step and associated value of faults detected during testing. Before using RCL FAIL, record the number displayed in the VALUE display. This is the number of faults detected during testing. The RCL FAIL key recalls one fault each time it is pressed and released.</p> <p>During this test, if a fault is detected and remedy refers to a table, do not shut down system or remove test set.</p>		
j. On LDDI and RDDI press and release MENU pushbutton switch until BIT pushbutton option is displayed on LDDI and STORES pushbutton option is displayed on RDDI.	Menu display appears on LDDI and RDDI.	Replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
k. On LDDI, press BIT pushbutton switch.	BIT control display appears on LDDI <input type="text" value="1"/> SMS GO or <input type="text" value="2"/> PBIT GO is displayed when BIT is complete.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
l. On RDDI press STORES pushbutton switch.	Stores display appears with SAFE displayed, and 1 HARM under test station.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).

Table 1. HARM Release System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
m. Press RUN key.	Test set key, STEP GO, RPT, RUN, ENTER TEST CLEAR and 0 through 9 lights come on. STEP display indicates 100 and VALUE display indicates 0.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 6, (WP031 02).
n. Press RUN key.	Test set key, MNL ACTN and RUN lights come on. STEP display indicates 200 and VALUE display indicates 2.	Repair or replace test set.
o. Press RUN key.	Test set key, END TEST and TIP lights come on.	Repair or replace test set.
1 p. On LDDI, press SMS/CLC/WPN pushbutton.	IN TEST comes on, then goes off and GO is displayed next to SMS/CLC/WPN in BIT display.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
2 q. On LDDI, press SEL BIT and then STORES.	Box appears around SEL BIT, IN TEST comes on, then goes off, and GO is displayed below STORES.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
2 r. On LDDI, press SEL BIT.	Box is removed from SEL BIT.	
s. On master arm control panel assembly, press and release A/G switch.	A/G indicator light comes on.	On F/A-18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).
5. INITIATED BIT.		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">After completion of Initiated Built-In Test (BIT), leave 1, 2 and 3 switches at ON and continue with this test.</p>		
a. Do Initiated Built-In Test (WP009 00).		
6. NORMAL RELEASE PROCEDURE.		
a. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		

Table 1. HARM Release System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
b. On master arm control panel assembly, set MASTER switch to ARM.	MASTER switch remains in ARM.	Replace Master Arm Control Panel Assembly (A1-F18AC-740-300, WP013 00).
c. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged. 2. ARM displayed on RDDI.	Do table 1 (WP012 00). Do table 1 (WP010 17).
d. On RDDI, press HARM pushbutton switch.	HARM boxed and X is displayed in SP mode on RDDI.	Do table 4 (WP031 02).
e. On LDDI, press and release MENU pushbutton switch until STORES pushbutton is displayed.	Menu display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
f. On LDDI, press and release STORES pushbutton option.	STORES wingform display transfers from RDDI to LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
g. On RDDI, press <input type="button" value="1"/> PB pushbutton switch or <input type="button" value="2"/> MODE PB pushbutton switch.	PB mode boxed is displayed on RDDI.	Do table 4 (WP031 02).
h. On RDDI, press <input type="button" value="1"/> TOO pushbutton switch or <input type="button" value="2"/> MODE TOO pushbutton switch.	TOO is boxed, targets appear in display on RDDI. Priority target has box around it.	Do table 4 (WP031 02).
<p style="text-align: center;"><b>NOTE</b></p> <p>For CLC 4.2, SID class is on PAGE 1. Operator must cycle between PAGE 1 and PAGE 2 for SID and GND classes.</p> <p>CLC indication will be 4.2 or 5.X. First digit of ELT must match CLC (CLC 4.2, ELT 4XX, CLC 5.X, ELT 5XX).</p> <p>For CLC 5.X, SID wingform has six stations. Aircraft outboard and inboard stations correspond to SID wingform midboard and inboard stations, respectively.</p>		
i. On RDDI, press <input type="button" value="1"/> pushbutton switch, or <input type="button" value="2"/> MSN pushbutton switch.	All available types are displayed on RDDI.	Do table 4 (WP031 02).
j. On RDDI, select PAGE 2.	TOO display returns on RDDI with TYPE 2 displayed and designated target 2 boxed.	Do table 4 (WP031 02).

Table 1. HARM Release System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
k. On RDDI, press SID pushbutton switch.	WITH CLC 4.2, on the RDDI SID displays: CLC-4.2 ELT-4XX MSL-GT STA ▷ and station number.  WITH CLC 5.X, on the RDDI SID displays: CLC-5.X ELT-5XX (If applicable) GEO ID GT (station being checked) in SID wingform.	Do table 4 (WP031 02).
l. On RDDI, press <input type="button" value="1"/> CLASS pushbutton switch or <input type="button" value="2"/> MSN pushbutton switch.		
m. On RDDI, press GND pushbutton switch.	Targets appear.	Do table 4 (WP031 02).
n. ON left throttle quadrant, press and release TDC switch several times.	Target box moves with each depression.	On F/A-18A, do table 6 (WP013 00).  On F/A-18B, do table 7 (WP013 00).
o. On right throttle grip, press and release CAGE/UNCAGE switch.	1. Only designated target with H-OFF above target remains on RDDI.  2. X removed from HARM box and RDY displayed under HARM on RDDI.	Do table 2 (WP031 03).  Do table 2 (WP031 02).
p. <input type="button" value="1"/> On RDDI, press RSET pushbutton switch to select and designate another target, or <input type="button" value="2"/> on the right throttle grip press and release CAGE/UNCAGE switch.	Target remains boxed, H-OFF is removed, HARM box has X displayed and RDY is removed.	Do table 2 (WP031 02).
q. On RDDI, select <input type="button" value="1"/> CLASS or <input type="button" value="2"/> MSN, then SID pushbutton switch.	WITH CLC 4.2, on the RDDI SID displays: CLC-4.2 ELT-4XX MSL-GT STA ▷ and station number.	Do table 4 (WP031 02).

Table 1. HARM Release System Test (Continued)



Procedure	Normal Indication	Remedy for Abnormal Indication
	WITH CLC 5.X, on the RDDI SID displays: CLC-5.X ELT-5XX (If applicable) GEO ID GT (station being checked) in SID wingform.	
r. On test set, press END TEST key.	Test set key STEP GO, RPT, RUN, ENTER TEST, CLEAR and 0 through 9 lights come on. STEP display indicates 200 and VALUE display indicates 0.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 6, (WP031 02).
s. On test set, press RUN key.	Test set key, STEP GO, RPT, RUN, ENTER TEST, CLEAR and 0 through 9 lights come on. STEP display indicates 300 and VALUE display indicates 0.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 6, (WP031 02).
t. On test set, press RUN key.	Test set key, END TEST and TIP lights come on. STEP display indicates 400 and VALUE display indicates 0.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 6, (WP031 02).
u. On RDDI, press  CLASS pushbutton switch, or  MSN pushbutton switch, then GND pushbutton switch.	1. TOO is boxed, targets appear in display on RDDI. Priority target has box around it.  2. Test set key, STEP GO light comes on.	Do table 4 (WP031 02).  Do table 3 (WP031 02).
<b>NOTE</b>		
After several seconds targets will appear on the TOO display.		
v. On right throttle grip, press and release CAGE/UNCAGE switch.	1. Only designated target with H-OFF above target remains on RDDI.  2. HARM boxed and RDY displayed under HARM on RDDI.	Do table 2 (WP031 03).  Do table 2 (WP031 02).
w. On aircraft controller, press and release A/G weapon release switch.	1. On RDDI, HARM display is removed.	

Table 1. HARM Release System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>x. On test set, press RUN key.</p> <p>7. SELECT JETT RELEASE PROCEDURE.</p> <p>a. On LH vertical console control panel assy, set SELECT JETT switch to STORES.</p> <p>b. On flaps, landing gear and stores indicator panel press and release LI, LO, RI or RO JETT STATION SELECT switch for station under test.</p>	<p>2. On LDDI, H+LKD appears under boxed HARM. X appears through HARM. RDY is removed. H-OFF goes off.</p> <p>3. Test set key STEP GO RPT, RUN, ENTER TEST, CLEAR, and 0 through 9 lights come on. STEP display indicates 400 and VALUE display indicates 0.</p> <p>Test set key, MNL ACTN and RUN lights come on. STEP display indicates 500 and VALUE display indicates 3.</p> <p>Light comes on for station selected.</p>	<p>Do table 2 (WP031 02).</p> <p>1 Do table 5 (WP031 02). 2 Do table 5A (WP031 02).</p> <p>Repair or replace test set.</p> <p>Do table 2 (WP013 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">JETT pushbutton must be pressed within 10 seconds after pressing RUN key.</p>		
<p>c. On test set, press RUN key. Within 10 seconds press and release SELECT JETT switch JETT pushbutton.</p> <p>d. On test set, press RUN key.</p>	<p>1. If no other station is selected, HARM station CLC indicates NOT RDY on LDDI.</p> <p>2. Test set key, STEP GO, RPT, RUN, ENTER TEST, CLEAR, and 0 through 9 lights come on. STEP display indicates 500 and VALUE display indicates 0.</p> <p>Test set key, MNL ACTN and RUN lights come on. STEP display indicates 600 and VALUE display indicates 4.</p>	<p>Do table 3 (WP031 03).</p> <p>Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 6, (WP031 02).</p> <p>Repair or replace test set.</p>

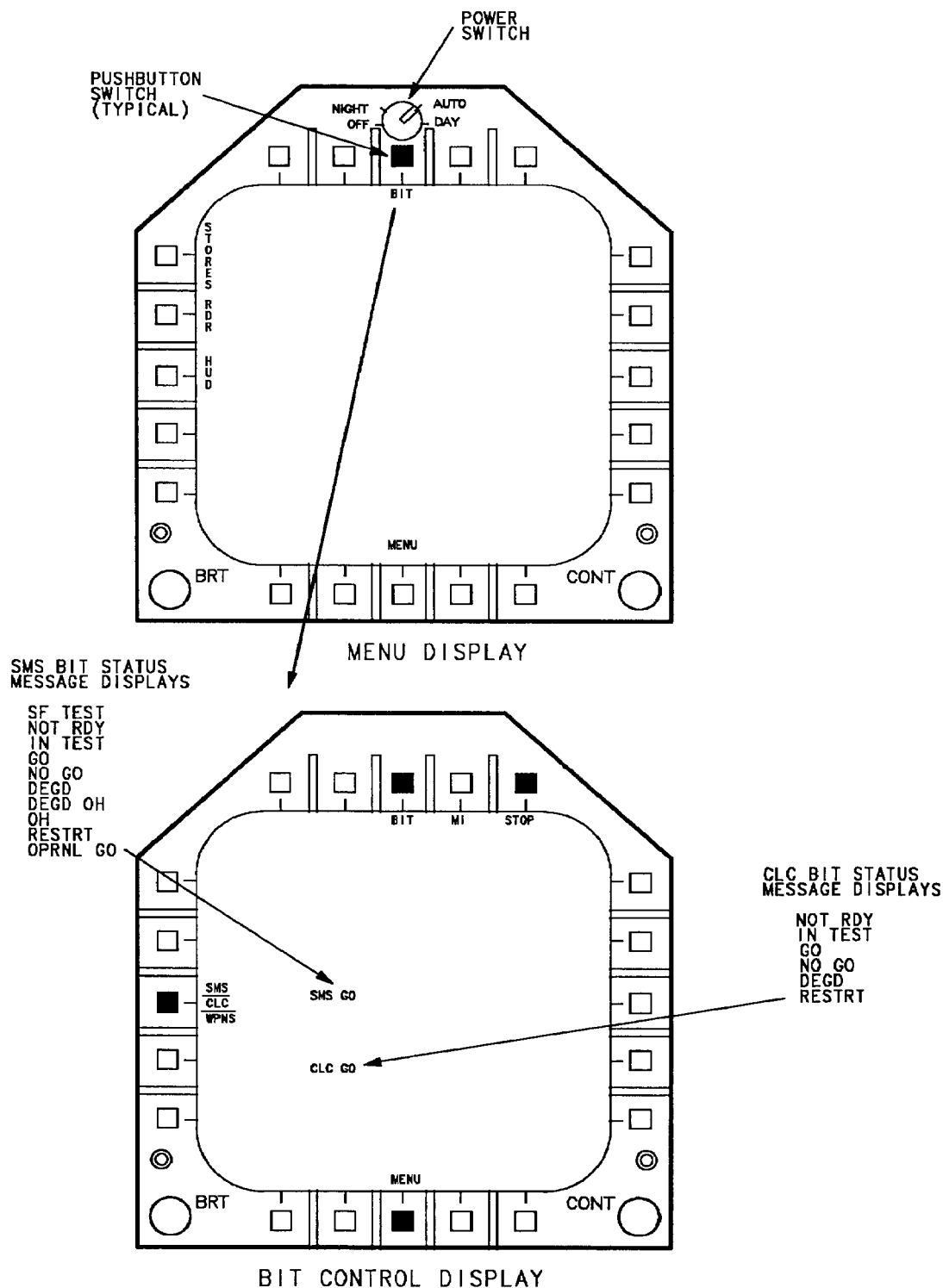


Table 1. HARM Release System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
e. On master arm control panel assembly, press and release A/G switch.	A/G indicator light goes off.	On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).
f. On master arm control panel assembly, set MASTER switch to SAFE.	1. ARMAMENT OVERRIDE switch disengages.  2. SAFE displayed on RDDI.	Do table 3 (WP010 17).  Do table 2 (WP010 17).
g. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.		
h. On LH vertical console control panel assembly, set SELECT JETT switch to SAFE.		
i. On flaps, landing gear and stores indicator panel press and release LI, LO, RI or RO JETT STATION SELECT switch.	Light goes off for station selected.	Do table 1 (WP011 00).
j. On test set, press RUN key.	Test set key, STEP GO, RPT, RUN, ENTER TEST, CLEAR, and 0 through 9 lights come on. STEP display indicates 600 and VALUE display indicates 0.	Use RCL FAIL key on test set and record STEP and VALUE for each fault then do table 6, (WP031 02).
<p style="text-align: center;"><b>NOTE</b></p> <p>The number of faults will appear in VALUE display. Faults may be recalled by pressing test set, RCL FAIL key. The step and associated value recorded for that step will be displayed for a failure each time RCL FAIL key light comes on when pressed.</p>		
k. On test set, press RUN key.	Test set key, UUT GO or UUT NO GO light comes on.	If UUT NO GO light comes on, press test set RCL FAIL key on test set and record STEP and VALUE for each fault then do table 6, (WP031 02).
l. On LDDI, press HARM pushbutton switch.	HARM not boxed or X through it.	Do table 2 (WP031 02).
m. On GND PWR control panel, set 3 switch to AUTO.		
n. On test set, set AC POWER switch to OFF.		

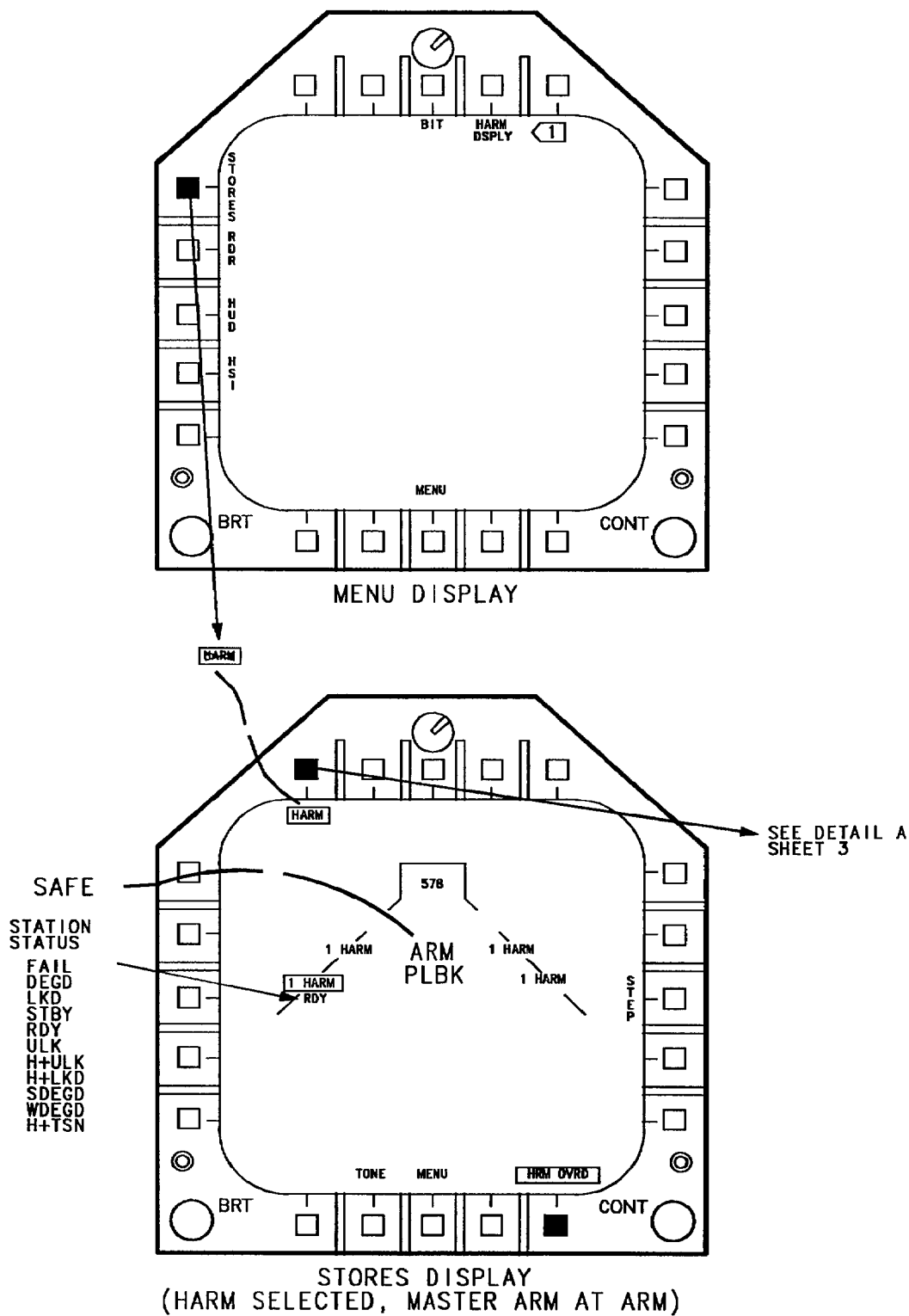
Table 1. HARM Release System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>o. Repeat steps 2e through 2g, 4a through 4p, 6a through 6x and 7a through 7n, for remaining stations or do SHUTDOWN.</p> <p>8. SHUTDOWN.</p> <p>a. On LDDI and RDDI, set power switch to OFF.</p> <p>b. On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.</p> <p>c. Remove electrical power (A1-F18AC-LMM-000).</p> <p>d. Disconnect proximity switch control (A1-F18AC-LMM-000).</p> <p>e. Disconnect ground intercommunications (A1-F18AC-LMM-000).</p> <p>f. Close door 14R (A1-F18AC-LMM-010).</p> <p>g. Disconnect W13 power adapter from aircraft UTILITY PWR RECP 1J-G089.</p> <p>h. Disconnect W6 test cable from 61P-W098R of LAU-118 HARM jumper cable W56228.</p> <p>i. Disconnect W2 power cable and W1 test cable from test set.</p> <p>j. Disconnect grounding strap from aircraft and test set.</p> <p>k. Stow W13 power adapter, W6 test cable, W2 power cable and W1 test cable in test set container.</p>		
<p>LEGEND</p> <p>1 On F/A-18A before F/A-18 AFC 253 OR F/A-18 AFC 292 and F/A-18B.</p> <p>2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 OR F/A-18 AFC 292.</p>		



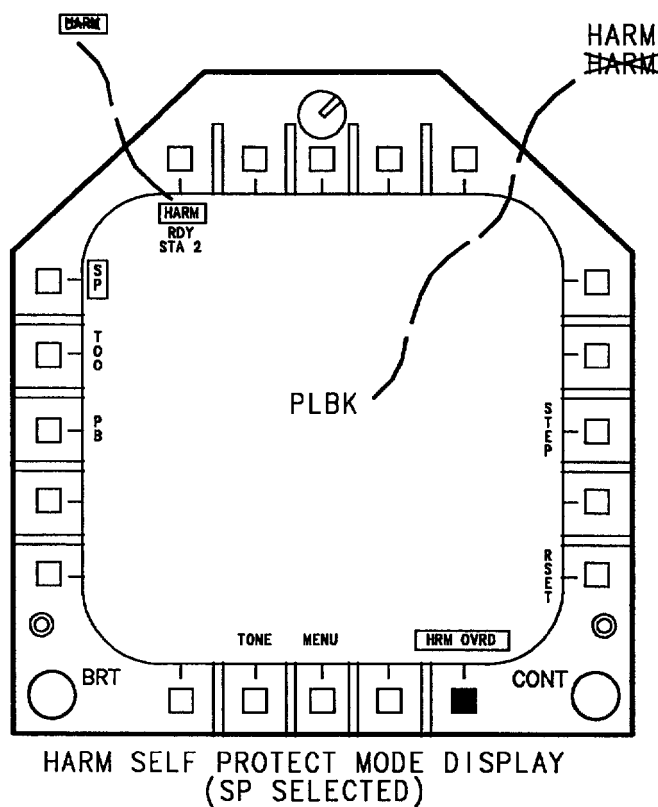
■ EFFECTIVITY: F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B

Figure 1. Test Displays (Sheet 1)



■ EFFECTIVITY: F/A-18A BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18B

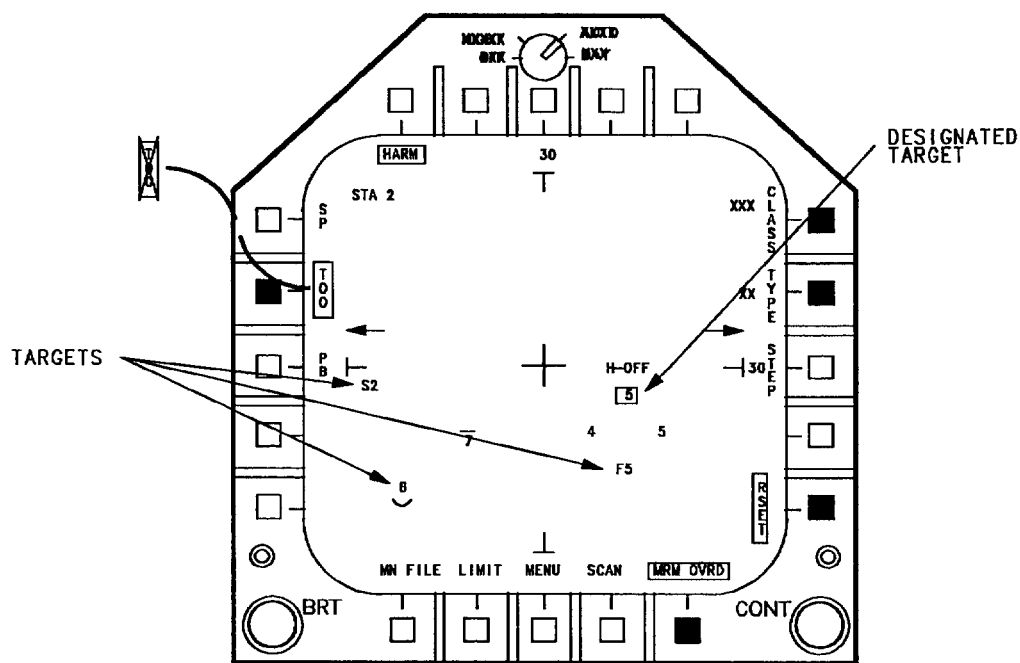
Figure 1. Test Displays (Sheet 2)



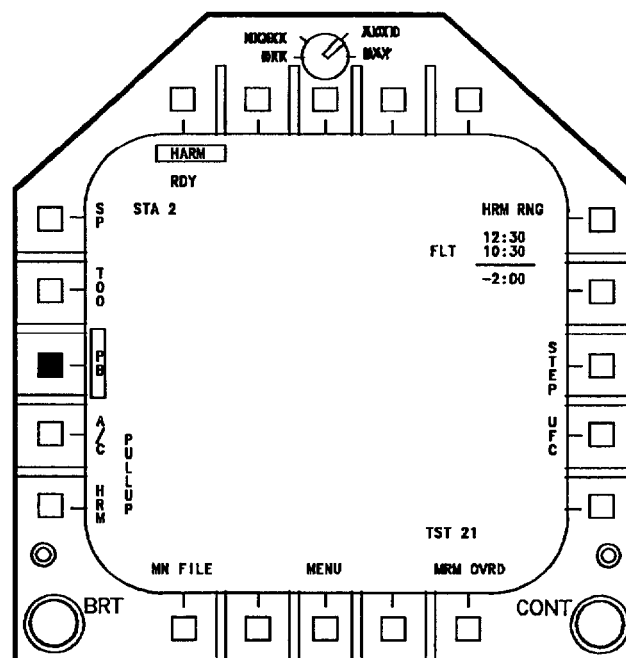
A

EFFECTIVITY: F/A-18A BEFORE F/A-18 AFC 253  
OR F/A-18 AFC 292 AND F/A-18B

Figure 1. Test Displays (Sheet 3)



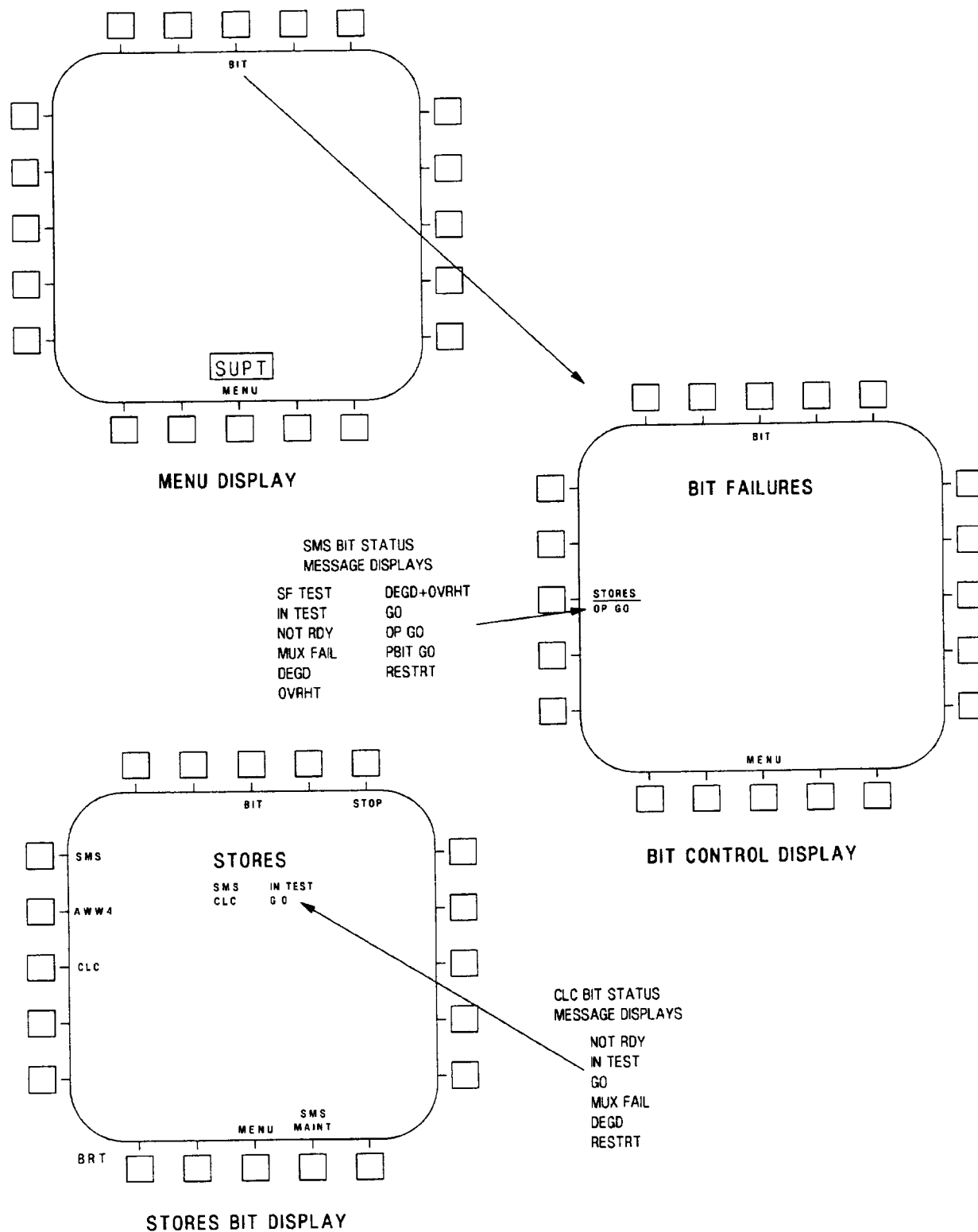
HARM TARGET-OF-OPPORTUNITY MODE  
DISPLAY (TOO SELECTED)



HARM PRE-BRIEFED MODE DISPLAY  
(PB SELECTED)

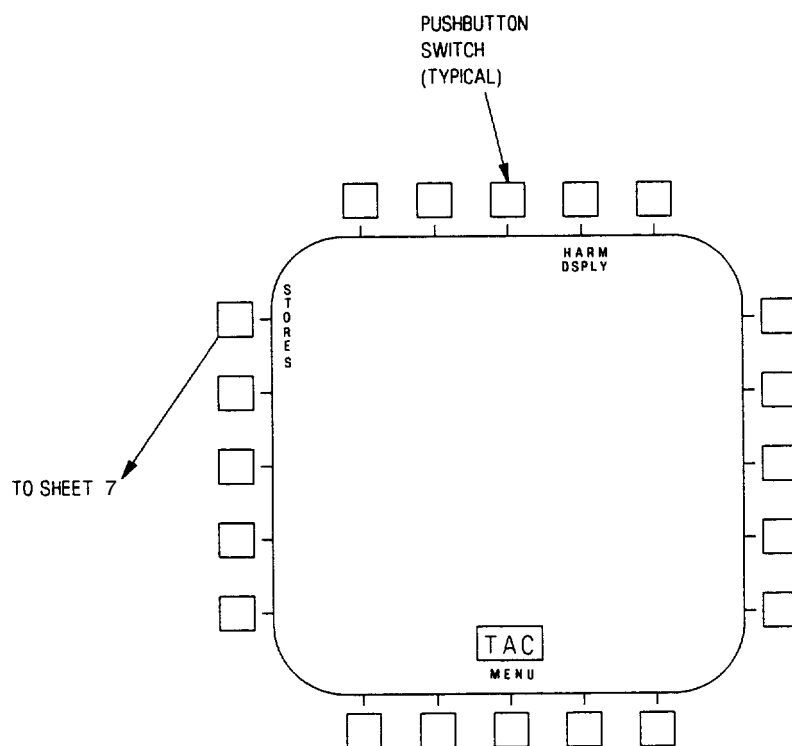
EFFECTIVITY: F/A-18A BEFORE F/A-18 AFC 253  
OR F/A-18 AFC 292 AND F/A-18B

Figure 1. Test Displays (Sheet 4)



EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

### Figure 1. Test Displays (Sheet 5)

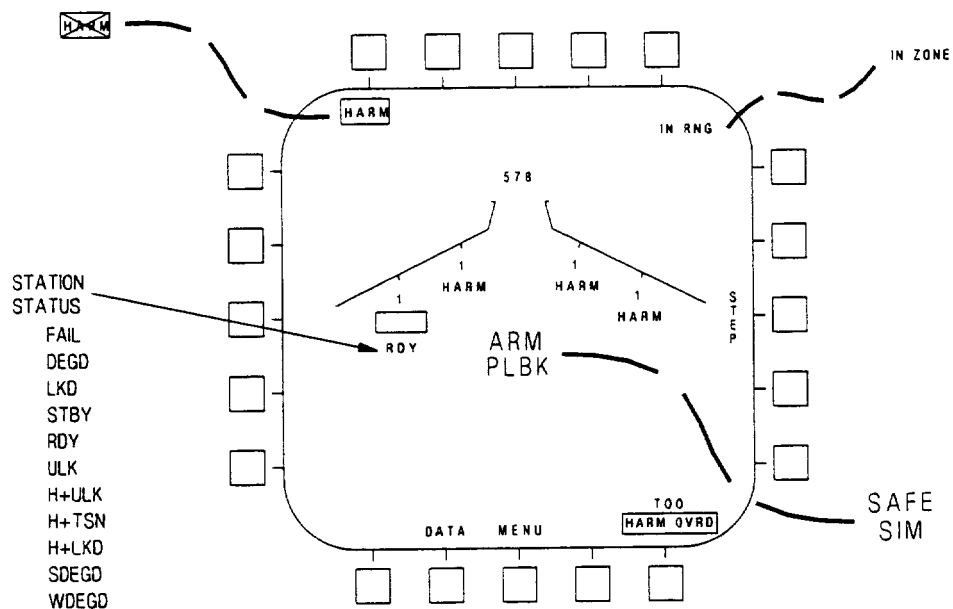


MENU DISPLAY

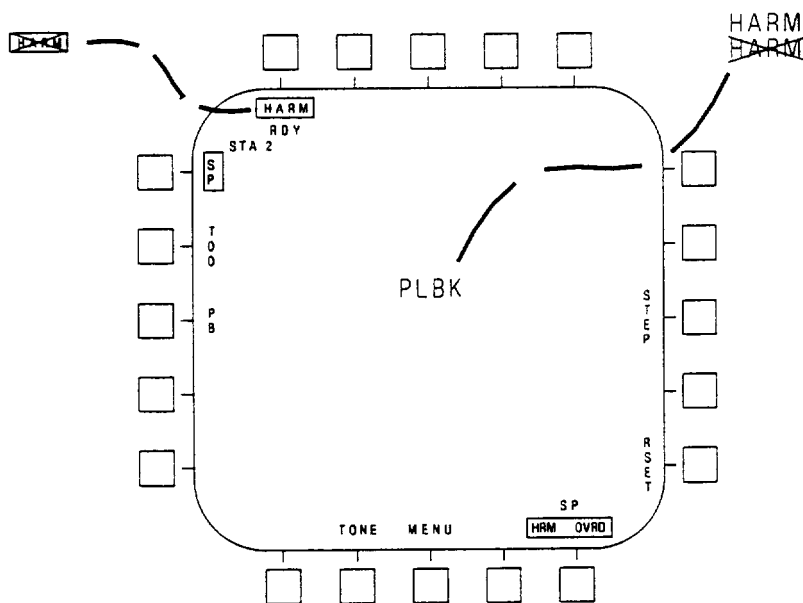
EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER  
F/A-18 AFC 253 OR F/A-18 AFC 292

Figure 1. Test Displays (Sheet 6)





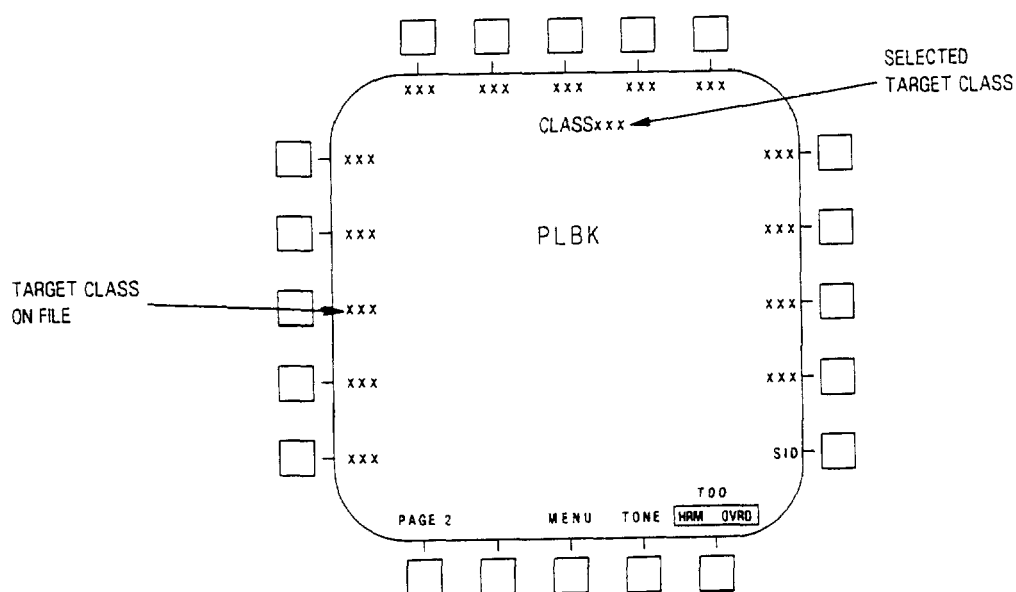
STORES DISPLAY  
(HARM SELECTED, MASTER ARM AT ARM)



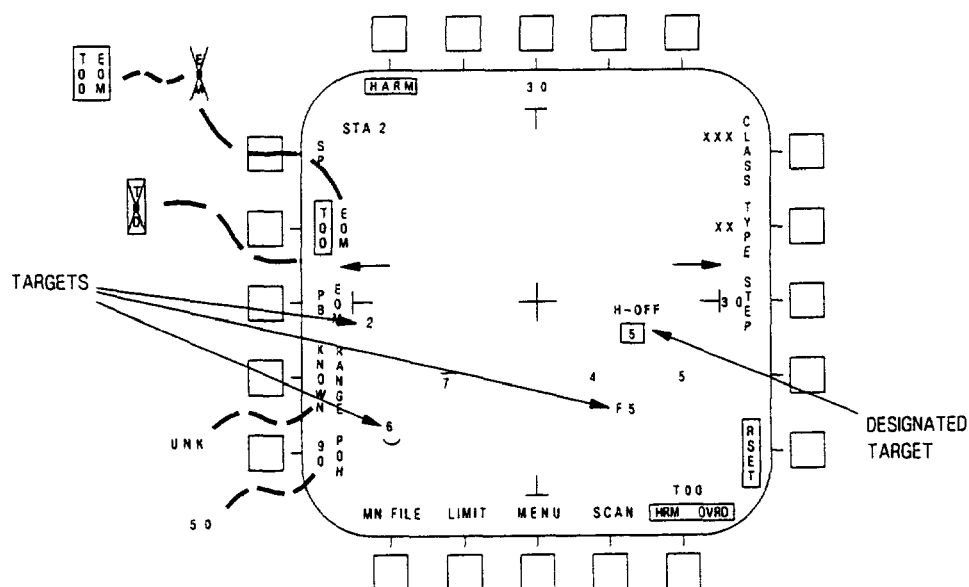
HARM SELF PROTECT MODE DISPLAY  
(SP SELECTED)

EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER  
F/A-18 AFC 253 OR F/A-18 AFC 292

Figure 1. Test Displays (Sheet 7)



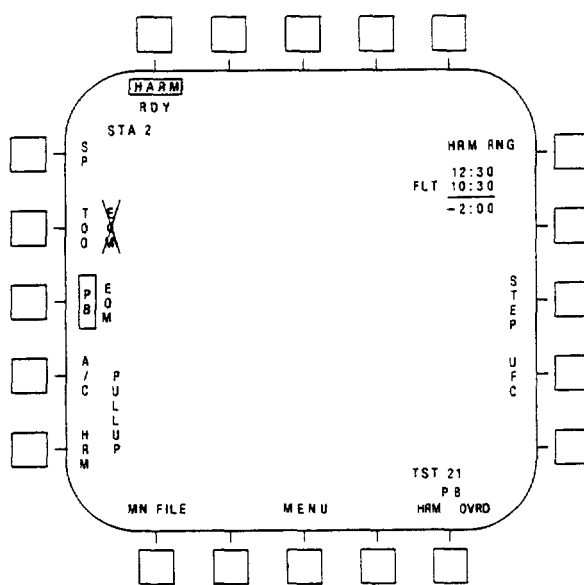
HARM CLASS OPTION DISPLAY (TOO MODE)



HARM TARGET-OF-OPPORTUNITY  
MODE DISPLAY (TOO SELECTED)

EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER  
F/A-18 AFC 253 OR F/A-18 AFC 292

### Figure 1. Test Displays (Sheet 8)



HARM PRE-BRIEFED MODE DISPLAY  
(PB SELECTED)

EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER  
F/A-18 AFC 253 OR F/A-18 AFC 292

Figure 1. Test Displays (Sheet 9)

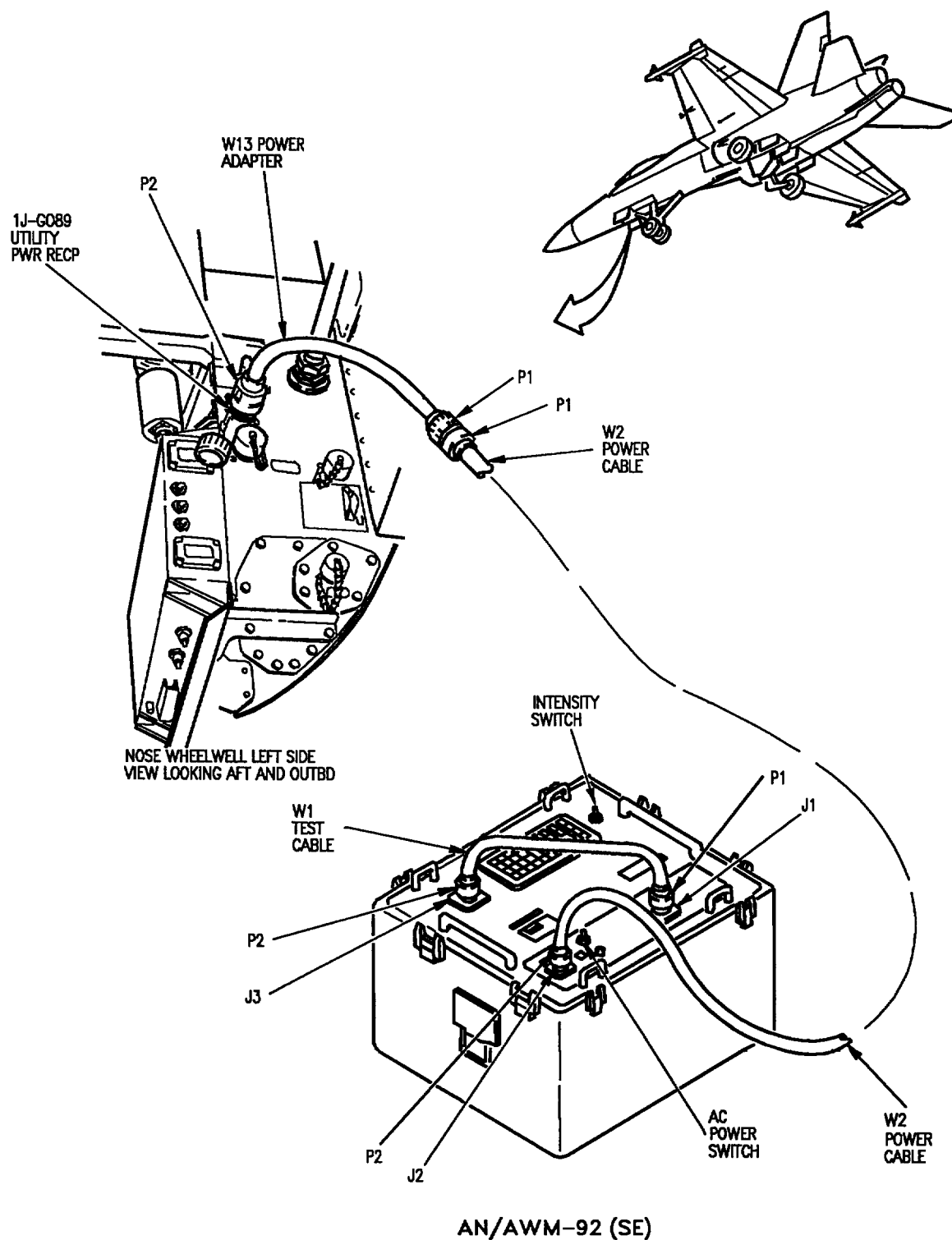


Figure 2. Test Equipment Hookup (Sheet 1)

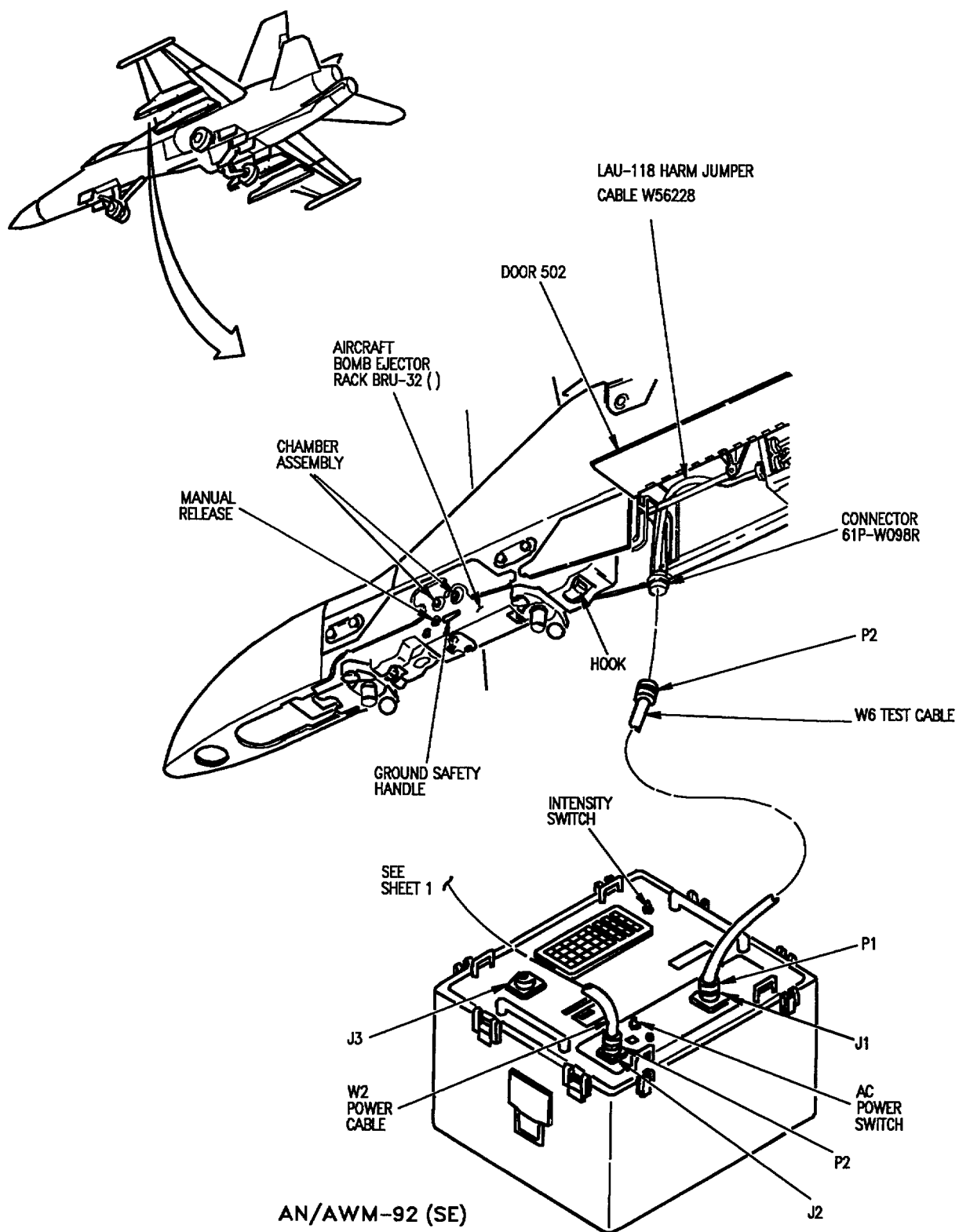


Figure 2. Test Equipment Hookup (Sheet 2)



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-88 HARM WEAPON SYSTEM TEST PART 1

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECF-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Test Set, AC Power Light Does Not Come On

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Power Distribution Schematic (A1-F18AC-420-500, WP005 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items below:		
Aircraft Wiring		
No. 8 Circuit Breaker/Relay Panel Assembly		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX1 scale.</p> <div>NOTE</div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <div>CAUTION</div> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connector listed below.</p>		
52P-C159G		



**Table 1. Test Set, AC Power Light Does Not Come On (Continued)**

Procedure	No	Yes
a. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect test set, power cable from UTILITY PWR RECP 1J-G089.		
(3) Connect multimeter leads to 1J-G089 pin A and D (ground).		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) Does 28vdc exist at 1J-G089 pin A? .....	b	e
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C159G from no. 8 circuit breaker/relay panel assembly.		
(4) Does continuity exist from:		
1J-G089 pin A to 52P-C159G pin 28		
1J-G089 pin D to aircraft ground? .....	c	d
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step i .....	-	-
d. Isolate malfunction between no. 8 circuit breaker/relay panel assembly wiring and 1CBC088 (A1-F18AC-420-300, WP004 00) and do step i .....	-	-
e. Do substeps listed below:		
(1) Connect multimeter ground lead to LJ-G089 pin B.		
(2) Does 115vac exist at 1J-G089 pins E, F and G? .....	f	h
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C159G from no. 8 circuit breaker/relay panel assembly.		
(4) Does continuity exist from:		
1J-G089 pin E to 52P-C159G pin 31		
1J-G089 pin F to 52P-C159G pin 30		
1J-G089 pin G to 52P-C159G pin 29		
1J-G089 pin B to aircraft ground? .....	c	g

**Table 1. Test Set, AC Power Light Does Not Come On (Continued)**

Procedure	No	Yes
g. Isolate malfunction between no. 8 circuit breaker/relay panel assembly wiring and 1CBC085, 1CBC086 and 1CBC087 (A1-F18AC-420-300, WP030 00) and do step i .....	-	-
h. Reconnect test set and check AC POWER light or power cable and do step i .....	-	-
i. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 52P-C159G		
(2) Door 10L .....	-	-

**Table 2. Status Not Displayed on DDI For Selected HARM**

<p style="text-align: center;"><b>Support Equipment Required</b></p> <p style="text-align: center;">None</p> <p style="text-align: center;"><b>Materials Required</b></p> <p style="text-align: center;">None</p> <p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">AGM-88 HARM Avionic Interface Schematic (A1-F18AC-740-500, WP055 00) may be used as an aid when doing this procedure.</p> <p style="text-align: center;">For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 Digital Display Indicator IP-1317( )</p>		
Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p style="margin-left: 40px;">(1) On master arm control panel assembly, press A/G switch.</p> <p style="margin-left: 40px;">(2) On RDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p style="margin-left: 40px;">(3) On RDDI, press STORES pushbutton switch.</p> <p style="margin-left: 40px;">(4) On RDDI, press HARM pushbutton switch.</p>		


**Table 2. Status Not Displayed on DDI For Selected HARM (Continued)**

Procedure	No	Yes
(5) On master arm control panel assembly, set MASTER switch to ARM.		
(6) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(7) Is display correct on RDDI? .....	b	c
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) .....	-	-
c. Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00) .....	-	-

**Table 3. Test Set, STEP Display or VALUE Display Wrong**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 3, 7, 8 AGM-88 HARM Schematic (A1-F18AC-740-500, WP055 00 and Armament Computer Input/Output Schematic (A1-F18AC-740-500, WP011 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Guided Missile Launcher LAU-118( )	
Aircraft Weapons Control Test Set AN/AWM-92	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
Armament Computer CP-1342/AYQ-9(V)	
HARM Jumper Cable W56228	

Table 3. Test Set, STEP Display or VALUE Display Wrong (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 61P-W112 from 61J-W112 on pylon stores electrical disconnect panel.</li> <li>(4) Disconnect 61P-W098R from Aircraft Guided Missile Launcher LAU-118( ).</li> <li>(5) Does continuity exist from: <ul style="list-style-type: none"> <li>61P-W112 pin 64 to 61P-W098R pin G</li> <li>61P-W112 pin 75 to 61P-W098R pin M</li> <li>61P-W112 pin 55 to 61P-W098R pin P</li> <li>61P-W112 pin 54 to 61P-W098R pin N</li> <li>61P-W112 pin 43 to 61P-W098R pin U</li> <li>61P-W112 pin 32 to 61P-W098R pin L</li> <li>61P-W112 pin 66 to 61P-W098R pin H</li> <li>61P-W112 pin 76 to 61P-W098R pin K? .....</li> </ul> </li> </ol>	b	c
b. Replace HARM Jumper Cable W56228 (A1-F18AC-740-300, WP037 02) and do step f . . . .	-	-
<p>c. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</li> <li>(2) Open door 14R (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 61P-F001A from Armament Computer CP-1342/AYQ-9(V).</li> </ol>		

**Table 3. Test Set, STEP Display or VALUE Display Wrong (Continued)**

Procedure	No	Yes
<p>(4) Does continuity exist from:</p> <p>Station 2:</p> <p>52J-U062 pin 40 to 61P-F001A pin 61  52J-U062 pin 41 to 61P-F001A pin 72  52J-U062 pin 58 to 61P-F001A pin 86  52J-U062 pin 59 to 61P-F001A pin 87  52J-U062 pin 111 to 61P-F001A pin 43  52J-U062 pin 115 to 61P-F001A pin 77  52J-U062 pin 55 to 61P-F001A pin 10  52J-U062 pin 56 to 61P-F001A pin 11</p> <p>or Station 3:</p> <p>52J-U063 pin 40 to 61P-F001A pin 85  52J-U063 pin 41 to 61P-F001A pin 84  52J-U063 pin 58 to 61P-F001A pin 99  52J-U063 pin 59 to 61P-F001A pin 109  52J-U063 pin 111 to 61P-F001A pin 44  52J-U063 pin 115 to 61P-F001A pin 78  52J-U063 pin 55 to 61P-F001A pin 29  52J-U063 pin 56 to 61P-F001A pin 18</p> <p>Station 7:</p> <p>52J-V067 pin 40 to 61P-F001A pin 37  52J-V067 pin 41 to 61P-F001A pin 38  52J-V067 pin 58 to 61P-F001A pin 110  52J-V067 pin 59 to 61P-F001A pin 119  52J-V067 pin 111 to 61P-F001A pin 21  52J-V067 pin 115 to 61P-F001A pin 90  52J-V067 pin 55 to 61P-F001A pin 28  52J-V067 pin 56 to 61P-F001A pin 40</p> <p>or Station 8:</p> <p>52J-V068 pin 40 to 61P-F001A pin 48  52J-V068 pin 41 to 61P-F001A pin 60  52J-V068 pin 58 to 61P-F001A pin 101  52J-V068 pin 59 to 61P-F001A pin 112  52J-V068 pin 111 to 61P-F001A pin 33  52J-V068 pin 115 to 61P-F001A pin 100  52J-V068 pin 55 to 61P-F001A pin 50  52J-V068 pin 56 to 61P-F001A pin 51? .....</p> <p>d. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....</p> <p>e. Malfunction is caused by one of the items listed below:</p>	<p>d</p> <p>-</p>	<p>e</p> <p>-</p>

**Table 3. Test Set, STEP Display or VALUE Display Wrong (Continued)**

Procedure	No	Yes
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). (2) Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). (3) Aircraft Weapons Control Test Set AN/AWM-92. Do step f .....	-	-
f. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W098R		
(2) 61P-F001A		
(3) 61P-W112		
(4) Door 14R		
(5) Door 502		
(6) Aircraft Wing Pylon SUU-63( ) .....	-	-

**Table 4. Wrong HARM Status Or Targets On DDI**

<p align="center"><b>Support Equipment Required</b></p> <p align="center">None</p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p align="center">AGM-88 HARM Avionic Interface Schematic (A1-F18AC-740-500, WP055 00) may be used as an aid when doing this procedure.</p> <p align="center">For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Armament Computer CP-1342/AYQ-9(V)            Digital Data Computer No. 2            Digital Display Indicator IP-1317( )</p>		
Procedure	No	Yes
a. Do substeps listed below:		


**Table 4. Wrong HARM Status Or Targets On DDI (Continued)**

Procedure	No	Yes
(1) On master arm control panel assembly, press A/G switch.		
(2) On LDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(3) On LDDI, press STORES pushbutton switch.		
(4) On LDDI, press HARM pushbutton switch.		
(5) On LDDI, press PB pushbutton switch.		
(6) Did HARM station status change? .....	b	c
b. On LDDI, press TOO pushbutton switch, did targets appear on DDI? .....	c	d
c. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) .....	-	-
d. Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00) .....	-	-

**Table 5. Test Set, Displays Wrong Indication For Normal Release**  
**EFFECTIVITY: F/A-18A before F/A-18 AFC 253**  
**or F/A-18 AFC 292 and F/A-18B**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Applicable Weapon Station 2, 3, 7, or 8 Power Control Schematic (A1-F18AC-740-500, WP027 00, WP028 00, WP032 00 or WP033 00), Weapon Station 2, 3, 7, 8 AGM-88 HARM Schematic (A1-F18AC-740-500, WP055 00) and AGM-88 HARM Avionic Interface Schematic (A1-F18AC-740-500, WP056 00) may be used as aids when doing this procedure.	
For component location, refer to WP007 00.	

**Table 5. Test Set, Displays Wrong Indication For Normal Release  
EFFECTIVITY: F/A-18A before F/A-18 AFC 253  
or F/A-18 AFC 292 and F/A-18B (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-118( ) Aircraft Weapons Control Test Set AN/AWM-92 Aircraft Wing Pylon SUU-63( ) Aircraft Wiring HARM Jumper Cable W56228 No. 2 Relay Panel Assembly No. 4 Circuit Breaker Panel Assembly No. 7 Circuit Breaker/Relay Panel Assembly		
Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX1 scale.</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect P2 of W6 test cable from 61P-W098R of HARM Jumper Cable W56228.</li> <li>(3) Connect ground at 61P-W098R pin R.</li> <li>(4) Open door 14R (A1-F18AC-LMM-010).</li> <li>(5) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 64.</li> </ol>		



**Table 5. Test Set, Displays Wrong Indication For Normal Release**  
**EFFECTIVITY: F/A-18A before F/A-18 AFC 253**  
**or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: fit-content;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(6) Connect proximity switch control (A1-F18AC-LMM-000).		
(7) Turn on electrical power (A1-F18AC-LMM-000).		
(8) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
(9) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(10) On master arm control panel assembly, press and release A/G switch.		
(11) On master arm control panel assembly, set MASTER switch to ARM.		
(12) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(13) Do substeps listed below:		
(a) Connect multimeter between 61P-W098R pin F and aircraft ground.		
(b) On aircraft controller grip assembly, press and release A/G weapon release switch.		
(c) Did 28vdc exist at 61P-W098R pin F? .....	b	d
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from 61J-W112 on pylon stores electrical disconnect panel.		
(4) Does continuity exist from:		
61P-W112 pin 24 to 61P-W098R pin F		
61P-W112 pin 40 to 61P-W098R pin D		
61P-W112 pin 70 to 61P-W098R pin R? .....	c	f
c. Replace HARM Jumper Cable W56228 (A1-F18AC-740-300, WP037 02) and do step o ...	-	-

**Table 5. Test Set, Displays Wrong Indication For Normal Release  
EFFECTIVITY: F/A-18A before F/A-18 AFC 253  
or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
d. Do substeps listed below:		
(1) Connect multimeter between 61P-W098R pin D and aircraft ground.		
(2) Does 28vdc exist at 61P-W098R pin D? .....	b	e
e. Remove Aircraft Guided Missile Launcher LAU-118( ) (A1-F18AC-740-300, WP037 02) and do step o .....	-	-
f. Is this HARM station 2 or 3? .....	g	m
g. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Open door 10R and door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-F058D from no. 2 relay panel assembly.		
(4) Remove station 8, 28vdc power control relay (A1-F18AC-740-300, WP020 01).		
(5) Does continuity exist from:		
Station 7: ON 161353 THRU 161987 BEFORE F/A-18 AFC 74,		
52J-V067 pin 52 to 52P-F058D pin V		
52J-V067 pin 103 to aircraft ground		
OR 162394 AND UP, ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74,		
52J-V067 pin 52 to 52P-F058D pin V		
52J-V067 pin 53 to 52P-F058D pin V		
52J-V067 pin 103 to aircraft ground		
Station 8: ON 161353 THRU 161987 BEFORE F/A-18 AFC 74,		
52J-V068 pin 52 to 52P-F058D pin T		
52J-V068 pin 103 to aircraft ground		
OR 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74,		
52J-V068 pin 52 to power relay socket pin A1		
52J-V068 pin 53 to power relay socket pin A1		
52J-V068 pin 103 to aircraft ground? .....	h	i
h. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step o .....	-	-

**Table 5. Test Set, Displays Wrong Indication For Normal Release  
EFFECTIVITY: F/A-18A before F/A-18 AFC 253  
or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>i. Do substeps listed below:</p> <p>(1) Open door 10R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) Does 28vdc exist at:</p> <p>Station 7: 52J-D026C pin x  Station 8: 52J-D026C pin q? .....</p>	j	k
<p>j. Do one of the items listed below:</p> <p>(1) Station 7: Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD146 (A1-F18AC-420-300, WP025 00).</p> <p>(2) Station 8: Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD149 (A1-F18AC-420-300, WP025 00). Do step o .....</p>	-	-
<p>k. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Does continuity exist from:</p> <p>Station 7: 52J-D026C pin x to 52P-F058D pin U  Station 8: ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, 52P-D026C pin q to 52P-F058D pin f  or ON 162394 AND UP, ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74 52P-D026C pin q to power relay socket pin A2? .....</p>	h	l
<p>l. Do one of the items listed below:</p> <p>(1) Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Station 7: Isolate no. 2 relay panel assembly wiring and 61K-F127 or 61K-F147 (A1-F18AC-420-300, WP032 00).</p> <p>(3) Station 8: ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, isolate no. 2 relay panel assembly wiring and 61K-F128 or 61K-F147 (A1-F18AC-420-300, WP032 00).</p> <p>(4) Station 8: ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, replace station 8, 28vdc power control relay (A1-F18AC-740-300, WP020 01). Do step o .....</p>	-	-

**Table 5. Test Set, Displays Wrong Indication For Normal Release  
EFFECTIVITY: F/A-18A before F/A-18 AFC 253  
or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>m. Do substeps listed below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p> <p>(4) Does continuity exist from:</p> <p>Station 2: ON 161353 THRU 161987 BEFORE F/A-18 AFC 74,</p> <p>52J-U062 pin 52 to 52P-C057C pin a 52J-U062 pin 103 to aircraft ground? ..... h n</p> <p>OR ON 162394 AND UP; 161353 THRU 161987 AFTER F/A-18 AFC 74,</p> <p>52J-U062 pin 52 to 52P-C057C pin a 52J-U062 pin 53 to 52P-C057C pin a 52J-U062 pin 103 to aircraft ground? ..... h n</p> <p>Station 3: ON 161353 THRU 161987 BEFORE F/A-18 AFC 74,</p> <p>52J-U063 pin 52 to 52P-C057C pin b 52J-U063 pin 103 to aircraft ground? ..... h n</p> <p>OR ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74,</p> <p>52J-U063 pin 52 to 52P-C057C pin b 52J-U063 pin 53 to 52P-C057C pin b 52J-U063 pin 103 to aircraft ground? ..... h n</p>		
<p>n. Do one of the items below:</p> <p>(1) Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Station 2: Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and 61K-C122, 61K-C142, or 61CBC145 (A1-F18AC-420-300, WP027 00).</p> <p>(3) Station 3: Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and 61K-C123, 61K-C141, 61K-C142, or 61CBC144 (A1-F18AC-420-300, WP025 00). Do step o ..... - -</p>		

**Table 5. Test Set, Displays Wrong Indication For Normal Release**  
**EFFECTIVITY: F/A-18A before F/A-18 AFC 253**  
**or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
o. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W112		
(2) 52P-F058D		
(3) 52P-C057C		
(4) 61P-W098R		
(5) 52P-D026C		
(6) Station 8, 28vdc power control relay (61K-D161)		
(7) Door 10L/R		
(8) Door 14R		
(9) Door 502		
(10) Disconnect proximity switch control		
(11) Aircraft Wing Pylon SUU-63( ) .....	-	-

**Table 6. Test Set, Displays Wrong Indication For Normal Release**  
**EFFECTIVITY: F/A-18A 162394 thru 163175 after**  
**F/A-18 AFC 253 or F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 6. Test Set, Displays Wrong Indication For Normal Release  
EFFECTIVITY: F/A-18A 162394 thru 163175 after  
F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

**NOTE**

Applicable Weapon Station 2, 3, 7, 8 Power Control Schematic (A1-F18AC-740-500, WP027 00, WP028 00, WP032 00 or WP033 00), Weapon Station 2, 3, 7 or 8 AGM-88 HARM Schematic (A1-F18AC-740-500, WP055 00) and AGM-88 HARM Computer/Command Launch Computer Interface Schematic (A1-F18AC-740-500, WP056 00) may be used as an aid when doing this procedure.

For component location, refer to WP007 00.

Malfunction is caused by one of the items listed below:

Aircraft Weapons Control Test Set AN/AWM-92  
Aircraft Guided Missile Launcher LAU-118( )  
Aircraft Wing Pylon SUU-63( )  
Aircraft Wiring  
LAU-118 HARM Jumper Cable W56228  
Wing Station Command Signal Encoder Decoder KY-853/AYQ-9(V)  
No. 4 Circuit Breaker Panel Assembly  
No. 7 Circuit Breaker/Relay Panel Assembly  
No. 10 Relay Panel Assembly  
No. 11 Relay Panel Assembly

**Procedure****No****Yes****NOTE**

The question used in logic tree “Does continuity exist” means to test for the items listed below:

1. Pin to pin test per procedural step.
2. Shorts to ground.
3. Shorts between surrounding pins on connectors.
4. Shorts between shield and conductors.
5. Shield continuity.

a. Do substeps listed below:

- (1) Turn off electrical power (A1-F18AC-LMM-000).
- (2) Disconnect 61P-W098R on LAU-118 HARM jumper cable from aircraft weapon control test set.
- (3) Disconnect 61P-W112 on LAU-118 jumper cable from 61J-W112 on pylon stores electrical disconnect panel.
- (4) Does continuity exist from:

**Table 6. Test Set, Displays Wrong Indication For Normal Release**  
**EFFECTIVITY: F/A-18A 162394 thru 163175 after**  
**F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
61P-W112 pin 24 to 61P-W098R pin F 61P-W112 pin 40 to 61P-W098R pin D 61P-W112 pin 70 to 61P-W098R pin R? .....	b	c
b. Replace LAU-118 HARM Jumper Cable W56228 (A1-F18AE-740-300, WP057 00) and do step x .....	-	-
c. Do substeps listed below:		
(1) Disconnect 61P-W012C from 61J-W012C of Pylon Command Signal Encoder Decoder KY-853/AYQ-9(V).  (2) Does continuity exist from:		
61J-W112 pin 24 to 61P-W012C pin C 61J-W112 pin 70 to 61P-W012C pin x? .....	d	e
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step x .....	-	-
e. Is this weapon station 2 or 3? .....	f	p
f. Do substeps listed below:		
(1) Open door 143R (A1-F18AC-LMM-010).  (2) Disconnect 52P-V044C from no. 10 relay panel assembly.  (3) Does continuity exist between:		
Station 7: 61J-W112 pin 40 to 52P-V044C pin a Station 8: 61J-W112 pin 40 to 52P-V044C pin b? .....	g	i
g. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP 034 00).  (2) Does continuity exist between:		
Station 7:  52J-V067 pin 103 to aircraft ground 52J-V067 pin 52/53 and 52P-V044C pin a		
Station 8:  52J-V068 pins 52/53 to 52P-V044C pin b 52J-V068 pin 103 to aircraft ground? .....	h	d

**Table 6. Test Set, Displays Wrong Indication For Normal Release**  
**EFFECTIVITY: F/A-18A 162394 thru 163175 after**  
**F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
h. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step x .....	-	-
i. Do substeps listed below:		
(1) Disconnect 52P-V044B from no. 10 relay panel assembly.		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) Does 28vdc exist between 52P-V044B pin s and aircraft ground? .....	j	k
j. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Does continuity exist between 61P-F001B pin 24 and 52P-V044B pin s? .....	h	o
k. Does 28vdc exist between:		
Station 7: 52P-V044B pin JJ and aircraft ground		
Station 8: 52P-V044B pin z and aircraft ground? .....	l	n
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) Does continuity exist between:		
Station 7: 52J-D026C pin x and 52P-V044B pin JJ		
Station 8: 52J-D026C pin q and 52P-V044B pin z? .....	h	m
m. Do one of the items listed below:		
(1) Station 7: Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD146 (A1-F18AC-420-300, WP025 00).		
(2) Station 8: Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD149 (A1-F18AC-420-300, WP025 00).		
Do step x .....	-	-
n. Malfunction is caused by one of the items listed below:		
(1) No. 10 Relay Panel Assembly (A1-F18AC-420-300, WP042 00).		



**Table 6. Test Set, Displays Wrong Indication For Normal Release**  
**EFFECTIVITY: F/A-18A 162394 thru 163175 after**  
**F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) (failed station).		
(3) Aircraft Weapon Control Test Set AN/AWM-92.		
Do step x .....	-	-
o. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step x .....	-	-
p. Do substeps below:		
(1) Open door 143L (A1-F18AC-LMM-010).		
(2) Disconnect 52P-U045C from no. 11 relay panel assembly.		
(3) Does continuity exist from:		
Station 2: 61J-W112 pin 40 and 52P-U045C pin b		
Station 3: 61J-W112 pin 40 and 52P-U045C pin a? .....	q	r
q. Do substeps below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist from:		
Station 2:		
52J-U062 pin 52 or 53 to 52P-U045C pin b		
52J-U062 pin 103 to aircraft ground		
Station 3:		
52J-U063 pin 52 or 53 to 52P-U045C pin a		
52J-U063 pin 103 to aircraft ground? .....	h	d
r. Do substeps listed below:		
(1) Disconnect 52P-U045B from no. 11 circuit breaker/relay panel assembly.		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) Does 28vdc exist between 52P-U045B pin s and aircraft ground? .....	s	t
s. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		

**Table 6. Test Set, Displays Wrong Indication For Normal Release**  
**EFFECTIVITY: F/A-18A 162394 thru 163175 after**  
**F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Does continuity exist between 61P-F001B pin 122 and 52P-V044B pin s? .....	h	o
t. Does 28vdc exist between:		
Station 2: 52P-U045B pin z and aircraft ground		
Station 3: 52P-U045B pin JJ and aircraft ground? .....	u	w
u. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057C from no. 7 relay panel assembly.		
(4) Does continuity exist from:		
Station 2: 52P-C057C pin q to 52P-U045B pin z		
Station 3: 52P-C057C pin a to 52P-U045B pin JJ? .....	h	v
v. Malfunction is caused by:		
(1) Station 2: Isolate malfunction between No. 7 Circuit Breaker/ Relay Panel Assembly wiring and circuit breaker (61CBC145) (A1-F18AC-420-300, WP027 00).		
(2) Station 3: Isolate malfunction between No. 7 Circuit Breaker/ Relay Panel Assembly wiring and circuit breaker (61CBC144) (A1-F18AC-420-300, WP027 00).		
Do step x .....	-	-
w. Malfunction is caused by one of the items listed below:		
(1) No. 11 Relay Panel Assembly (A1-F18AC-420-300, WP043 00).		
(2) Wing Pylon Command Signal Encoder Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
(3) Aircraft Weapon Control Test Set AN/AWM-92.		
Do step x .....	-	-

**Table 6. Test Set, Displays Wrong Indication For Normal Release**  
**EFFECTIVITY: F/A-18A 162394 thru 163175 after**  
**F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
x. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:  (1) 61P-W112  (2) 52P-V044B  (3) 52P-V044C  (4) 52P-U045B  (5) 52P-U045C  (6) 52P-C057C  (7) 61P-W098R  (8) 52P-D026C  (9) Door 10L/R  (10) Door 14R  (11) Door 79R/L  (12) Door 502  (13) Aircraft Wing Pylon SUU-63( )  (14) Proximity Switch Control .....	-	-

**Table 7. Maintenance Action for AWM-92 Fail Codes**

STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
<p style="text-align: center;"><b>NOTE</b></p> <p>STEP display is the step number recorded using the RCL FAIL key.</p> <p>Test column is an explanation of test step number.</p> <p>Test limits lists the upper and lower pass limits for a test. With a fault code the VALUE display will be outside these limits.</p>				

Table 7. Maintenance Action for AWM-92 Fail Codes (Continued)

STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
Connector/pin column lists the connector and pin used during that test step. Troubleshoot faults using the table/work package listed in Maintenance Action Column.				
101	AGM-88 Ident exists	-.12vdc to 1.00vdc	61P-W098R pin R	Station 2; <input type="checkbox"/> 1 do table 3, or <input type="checkbox"/> 2 do table 3A, WP010 22.  Station 3; <input type="checkbox"/> 1 do table 3, or <input type="checkbox"/> 2 do table 3A, WP010 24.  Station 7; <input type="checkbox"/> 1 do table 3, or <input type="checkbox"/> 2 do table 3A, WP010 27.  Station 8; <input type="checkbox"/> 1 do table 3, or <input type="checkbox"/> 2 do table 3A, WP011 28.
102	Verify stray voltage detectors enabled	-.12vdc to 1.00vdc	61P-W098R pin F	Repair or replace test set.
103	Verify .75amp load applied	-.12vdc to 1.00vdc	61P-W098R pin E (φA) 61P-W098R pin C (φB) 61P-W098R pin A (φC)	Repair or replace test set.
104 THRU 106	Verify 115vac φC exists	φA and φB; 0.0vac to 20.0 vac φC; 103.5vac to 126.5vac	61P-W098R pin E (φA) 61P-W098R pin C (φB) 61P-W098R pin A (φC)	Station 2; do table 1, WP031 06, and table 1, WP031 04.  Station 3; do table 2, WP031 06, and table 2 WP031 04.

Table 7. Maintenance Action for AWM-92 Fail Codes (Continued)





STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
107	Verify .75amp load applied	20.00vdc to 34.10vdc	61P-W098R pin E (φA) 61P-W098R pin C (φB) 61P-W098R pin A (φC)	Station 7; do table 1, WP031 07 and table 1 WP031 05.  Station 8; do table 2, WP031 07 and table 2 WP031 05.  Repair or replace test set.
108	Verify stray voltage detectors removed	20.00vdc to 34.10vdc	61P-W098R pin F	Repair or replace test set.
109	Retention solenoid.	-1.00vdc to 1.00vdc	61P-W098R pin D	 Do table 5, or  do table 6, WP031 02.
200	Handoff High/ Handoff Low	-	61P-W098R pin H and K	Do table 3, WP031 02.
201	Handoff Indication.	 100-Good parity with no TCP (Time coincident pulses)  101-Good parity with TCP 102-No communication 103-Parity failure 104-TCP failure	61P-W098R pin G and M 61P-W098R pin P and N 61P-W098R pin U and L	Do table 3, WP031 02.
301 THRU 303	115vac 3φ test.	103.5vac to 126.5vac	61P-W098R pin E (φA) 61P-W098R pin C (φB)	Station 2; do table 1, WP031 04.

Table 7. Maintenance Action for AWM-92 Fail Codes (Continued)

STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
304	Verify 3 $\phi$ sequence	Sequence is 1 = $\phi$ A, 2 = $\phi$ B, 3 = $\phi$ C. <div>1</div> Test display = 123 (STEP GO, good phase) <div>1</div> Test display = 213 (STEP NO GO, bad phase)	61P-W098R pin A ( $\phi$ C)  61P-W098R pin E ( $\phi$ A) 61P-W098R pin C ( $\phi$ B) 61P-W098R pin A ( $\phi$ C)	Station 3; do table 2, WP031 04.  Station 7; do table 1, WP031 05.  Station 8; do table 2, WP031 05.  Station 2; do table 1, WP031 04.  Station 3; do table 2, WP031 04.  Station 7; do table 1, WP031 05.  Station 8; do table 2, WP031 05.
305 THRU 307	Verify 3amp load applied.	97.1vac to 129.0vac	61P-W098R pin E ( $\phi$ A) 61P-W098R pin C ( $\phi$ B) 61P-W098R pin A ( $\phi$ C)	Repair or replace test set.
308 THRU 310	Verify 115vac 3 $\phi$ exists	103.5vac to 126.5vac	61P-W098R pin E ( $\phi$ A) 61P-W098R pin C ( $\phi$ B) 61P-W098R pin A ( $\phi$ C)	Station 2; do table 1, WP031 04.  Station 3; do table 2, WP031 04.  Station 7; do table 1, WP031 05.  Station 8; do table 2, WP031 05.

Table 7. Maintenance Action for AWM-92 Fail Codes (Continued)

















STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
311 THRU 313	Verify 3amp load removed.	0.0vac to 2.0vac	61P-W098R pin E (φA) 61P-W098R pin C (φB) 61P-W098R pin A (φC)	Repair or replace test set.
401	Fire signal.	19.10vdc to 30.50vdc	61P-W098R pin F	 Do table 5, or  do table 6, WP031 02.
402	Handoff Indication.	 100-Good parity with no TCP (Time coincident pulses)  101-Good parity with TCP 102-No communication 103-Parity failure 104-TCP failure	61P-W098R pin G and M 61P-W098R pin P and N 61P-W098R pin U and L	Do table 3, WP031 02.
501	Verify stray voltage detectors are removed.	20.00vdc to 34.10vdc	61P-W098R pin F	Repair or replace set.
502	Retention solenoid.	-1.00vdc to 1.00vdc.	61P-W098R pin D	 Do table 3, or  do table 4, WP031 03.
503	Retention solenoid power	14.93vdc to 29.00vdc	61P-W098R pin D	 Do table 3, or  do table 4, WP031 03.
504	Retention solenoid power (loaded).	18.00vdc to 30.50vdc	61PW098R pin D	 Do table 3, or  do table 4, WP031 03.
505	Fire signal (not loaded).	19.10vdc to 30.50vdc	61P-W098R pin F	 Do table 3, or  do table 4, WP031 03.

Table 7. Maintenance Action for AWM-92 Fail Codes (Continued)

STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
506	Verify AGM-88 Ident ground re- moved.	9.00vdc to 16.00vdc	61P-W098R pin R	Station 2; <div>1</div> do table 3, or <div>2</div> do table 3A, WP010 22.  Station 3; <div>1</div> do table 3, or <div>2</div> do table 3A, WP010 24.  Station 7; <div>1</div> do table 3, or <div>2</div> do table 3A, WP010 27.  Station 8; <div>1</div> do table 3, or <div>2</div> do table 3A, WP010 28.
507	Verify 10amp load applied.	13.50vdc to 29.00vdc	61P-W098R pin F	Repair or replace test set.
508	Fire signal (loaded).	19.10vdc to 28.50vdc	61P-W098R pin F	<div>1</div> do table 3, or <div>2</div> do table 4, WP031 03.
509	Verify fire signal removed.	-.12vdc to .12vdc	61P-W098R pin F	<div>1</div> do table 3, or <div>2</div> do table 4, WP031 03.
510	AWM-92 BIT.	20.00vdc to 34.10vdc	61P-W098R pin F	Repair or replace test set.
601	Verify 10amp load is applied.	-.12vdc to 1.00vdc	61P-W098R pin F	Repair or replace test set.
602	Fire signal.	-.12vdc to .12vdc	61P-W098R pin F	<div>1</div> Do table 5, or <div>2</div> do table 6, WP031 02.
603	Verify 10amp load is removed.	20.00vdc to 34.10vdc	61P-W098R pin F	Repair or replace test set.
604	Verify .75amp loads are applied.	-.12vdc to 1.00vdc	-	Repair or replace test set.



Table 7. Maintenance Action for AWM-92 Fail Codes (Continued)

STEP Display	Test	Test Limits	Connector/Pin	Maintenance Action
605 THRU 607	115vac 3 $\phi$	0.0vac to 20.0vac	61P-W098R pin E ( $\phi$ A) 61P-W098R pin C ( $\phi$ B) 61P-W098R pin A ( $\phi$ C)	Station 2; do table 1, WP031 06.  Station 3; do table 2, WP031 06.  Station 7, do table 1, WP031 07.  Station 8; do table 2, WP031 07.
608	Verify .75amp loads are removed.	20.00vdc to 34.10vdc	61P-W098R pin E ( $\phi$ A) 61P-W098R pin C ( $\phi$ B) 61P-W098R pin A ( $\phi$ C)	Repair or replace test set.
609	Retention solenoid.	-1.00vdc to 1.00vdc	61P-W098R pin D	 Do table 5, or  do table 6, WP031 02.
<p style="text-align: center;">LEGEND</p> <p> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 OR F/A-18 AFC 292.</p>				



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-88 HARM WEAPON SYSTEM TEST PART 2

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Wrong DDI Display Using HARM Target Sequence/TDC Switch

Support Equipment Required
None
Materials Required
None

**Table 1. Wrong DDI Display Using HARM Target Sequence/TDC Switch  
(Continued)**

NOTE		
<p>AGM-88 HARM Avionic Interface Schematic (A1-F18AC-740-500, WP055 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Left Throttle Grip</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) On F/A-18A, open door 10L or on F/A-18B, open door 13L (A1-F18AC-LMM-010).		
(5) On F/A-18A, disconnect 52P-C032 from 52J-H032 or on F/A-18B, disconnect 52P-E307 from 52J-K307.		
(6) Does continuity exist from 61P-F001B pin 55 to 52P-C032 pin 7 or 52P-E307 pin 103? .....	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step e .....	-	-


**Table 1. Wrong DDI Display Using HARM Target Sequence/TDC Switch (Continued)**

Procedure	No	Yes
<p>c. Do substeps listed below:</p> <p>(1) Remove internal door CPP (A1-F18AC-LMM-010).</p> <p>(2) Disconnect P1 of left throttle grip from 52J-H049.</p> <p>(3) Does continuity exist from 52J-H049 pin 19 to 52J-H032 pin 7 or 52J-K307 pin 103? .....</p> <p>d. Malfunction is caused by one of the items listed below:</p> <p>(1) Throttle grip (left) (A1-F18AC-270-300, WP088 00).</p> <p>(2) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>Do step e .....</p> <p>e. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 52P-C032</p> <p>(2) 52P-E307</p> <p>(3) P1 left throttle grip</p> <p>(4) 61P-F001B</p> <p>(5) Door 14R</p> <p>(6) Door 10L</p> <p>(7) Door 13L</p> <p>(8) Internal door CPP .....</p>	-	-

**Table 2. Wrong DDI Display Using CAGE/UNCAGE Switch**

<p><b>Support Equipment Required</b></p> <p>None</p> <p><b>Materials Required</b></p> <p>None</p> <p><b>NOTE</b></p> <p>AGM-88 HARM Avionic Interface Schematic (A1-F18AC-740-500, WP055 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p>
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**Table 2. Wrong DDI Display Using CAGE/UNCAGE Switch (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Right Throttle Grip		
Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Open internal door NWA (A1-F18AC-LMM-010).		
(5) Disconnect 52P-C039 from 52J-H039.		
(6) Does continuity exist from 61P-F001B pin 119 to 52P-C039 pin 12? .....	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step e .....	-	-
c. Do substeps listed below:		
(1) Remove internal door CPP (A1-F18AC-LMM-010).		
(2) Disconnect P1 of right throttle grip from 52J-H048.		
(3) Does continuity exist from 52J-H048 pin 36 to 52J-H039 pin 12? .....	b	d



**Table 2. Wrong DDI Display Using CAGE/UNCAGE Switch (Continued)**

Procedure	No	Yes
d. Malfunction is caused by one of the items listed below:		
(1) Throttle grip (right) (A1-F18AC-270-300, WP088 00).		
(2) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
Do step e .....	-	-
e. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 52P-C039		
(2) P1 right throttle grip		
(3) 61P-F001B		
(4) Door 14R		
(5) Internal door NWA		
(6) Internal door CPP .....	-	-

**Table 3. Test Set, Displays Wrong Indication For SELECT JETT – F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Applicable Weapon Station 2, 3, 7, or 8 Power Control Schematic (A1-F18AC-740-500, WP027 00, WP028 00, WP032 00 or WP033 00) and Weapon Station 2, 3, 7, 8 AGM-88 HARM Schematic (A1-F18AC-740-500, WP055 00) and Selective Jettison/Auxiliary Release Schematic (A1-F18AC-740-500, WP019 00) may be used as aids when doing this procedure.	
For component location, refer to WP007 00.	

**Table 3. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Malfunction is caused by one of the items below:		
Aircraft Weapon Control Test Set AN/AWM-92 Guided Missile Launcher LAU-118( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring HARM Jumper Cable W56228 No. 2 Relay Panel Assembly No. 4 Circuit Breaker Panel Assembly No. 7 Circuit Breaker/Relay Panel Assembly		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX1 scale.</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect P2 of W6 test cable from 61P-W098R of HARM jumper cable W56228.</li> <li>(3) Connect ground at 61P-W098R pin R.</li> <li>(4) Open door 14R (A1-F18AC-LMM-010).</li> <li>(5) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 64.</li> </ol>		
<div style="text-align: center;">  <p><b>WARNING</b></p> </div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> <ol style="list-style-type: none"> <li>(6) Connect proximity switch control (A1-F18AC-LMM-000).</li> </ol>		



**Table 3. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>(7) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(8) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</p> <p>(9) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(10) On master arm control panel assembly, press and release A/G switch.</p> <p>(11) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(12) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(13) On flaps, landing gear and stores indicator panel, press and release LI, LO, RI or RO JETT STATION SELECT switch for station under test.</p> <p>(14) On LH vertical console control panel, set SELECT JETT switch to STORES.</p> <p>(15) Do substeps listed below:</p> <p style="padding-left: 40px;">(a) Connect multimeter between 61P-W098R pin F and aircraft ground.</p> <p style="padding-left: 40px;">(b) On LH vertical console control panel assembly, press and release SELECT JETT switch, JETT pushbutton.</p> <p style="padding-left: 40px;">(c) Did 28vdc exist at 61P-W098R pin F? .....</p>		
<p>b. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W112 from 61J-W112 on pylon stores electrical disconnect panel.</p> <p>(4) Does continuity exist from:</p> <p style="padding-left: 40px;">61P-W112 pin 24 to 61P-W098R pin F</p> <p style="padding-left: 40px;">61P-W112 pin 40 to 61P-W098R pin D</p> <p style="padding-left: 40px;">61P-W112 pin 70 to 61P-W098R pin R? .....</p>	b	d
<p>c. Replace HARM Jumper Cable W56228 (A1-F18AC-740-300, WP037 02) and do step o ...</p>	-	-
<p>d. Do substeps listed below:</p> <p>(1) Connect multimeter between 61P-W098R pin D and aircraft ground.</p> <p>(2) Does 28vdc exist at 61P-W098R pin D? .....</p>	b	e

**Table 3. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
e. Remove Aircraft Guided Missile Launcher LAU-118( ) (A1-F18AC-740-300, WP037 02) and do step o .....	-	-
f. Is this HARM station 2 or 3? .....	g	m
g. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Open door 10R and door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-F058D from no. 2 relay panel assembly.		
(4) Remove station 8, 28vdc power control relay (A1-F18AC-740-300, WP020 01).		
(5) Does continuity exist from:		
Station 7: ON 161353 THRU 161987 BEFORE F/A-18 AFC 74,		
52J-V067 pin 53 to 52P-F058D pin V		
52J-V067 pin 103 to aircraft ground? .....	h	i
OR 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74,		
52J-V067 pin 52 to 52P-F058D pin V		
52J-V067 pin 53 to 52P-F058D pin V		
52J-V067 pin 103 to aircraft ground? .....	h	i
Station 8: OR 161353 THRU 161987 BEFORE F/A-18 AFC 74,		
52J-V068 pin 52 to 52P-F058D pin T		
52J-V068 pin 103 to aircraft ground? .....	h	i
OR 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74,		
52J-V068 pin 52 to power relay socket pin A1		
52J-V068 pin 53 to power relay socket pin A1		
52J-V068 pin 103 to aircraft ground? .....	h	i
h. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step o .....	-	-
i. Do substeps listed below.		
(1) Open door 10R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		

**Table 3. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>(4) Does 28vdc exist at:</p> <p>Station 7: 52J-D026C pin x  Station 8: 52J-D026C pin q? .....</p>	j	k
<p>j. Do one of the items listed below:</p> <p>(1) Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Station 7: Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD146 (A1-F18AC-420-300, WP025 00).</p> <p>(3) Station 8: Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD149 (A1-F18AC-420-300, WP025 00). Do step o .....</p>	-	-
<p>k. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Does continuity exist from:</p> <p>Station 7:  52J-D026C pin x to 52P-F058D pin U</p> <p>Station 8:  ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, 52P-D026C pin q to 52P-F058D pin f</p> <p>OR ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, 52P-D026C pin q to power relay socket pin A2? .....</p>	h	l
<p>l. Do one of the items listed below:</p> <p>(1) Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Station 7: Isolate no. 2 relay panel assembly wiring and 61K-F127 or 61K-F137 (A1-F18AC-420-300, WP032 00).</p> <p>(3) Station 8: ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, isolate no. 2 relay panel assembly wiring and 61K-F128 or 61K-F138 (A1-F18AC-420-300, WP032 00).</p> <p>(4) Station 8: ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, replace station 8, 28vdc power control relay (A1-F18AC-740-300, WP020 01). Do step o .....</p>	-	-
<p>m. Do substeps listed below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p>		

**Table 3. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p> <p>(4) Does continuity exist from:</p> <p>Station 2: ON 161353 THRU 161987 BEFORE F/A-18 AFC 74,</p> <p>52J-U062 pin 52 to 52P-C057C pin a 52J-U062 pin 103 to aircraft ground? .....</p> <p>OR ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74,</p> <p>52J-U062 pin 52 to 52P-C057C pin a 52J-U062 pin 53 to 52P-C057C pin a 52J-U062 pin 103 to aircraft ground? .....</p> <p>Station 3: ON 161353 THRU 161987 BEFORE F/A-18 AFC 74,</p> <p>52J-U063 pin 52 to 52P-C057C pin b 52J-U063 pin 103 to aircraft ground? .....</p> <p>OR ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74,</p> <p>52J-U063 pin 52 to 52P-C057C pin b 52J-U063 pin 53 to 52P-C057C pin b 52J-U063 pin 103 to aircraft ground? .....</p>	h	n
<p>n. Do one of the items below:</p> <p>(1) Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Station 2: Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and 61K-C122, 61K-C142, or 61CBC145 (A1-F18AC-420-300, WP027 00).</p> <p>(3) Station 3: Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and 61K-C123, 61K-C141, 61K-C142, or 61CBC144 (A1-F18AC-420-300, WP025 00). Do step o .....</p>	-	-
<p>o. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 61P-W112</p> <p>(2) 52P-F058D</p> <p>(3) 52P-C057C</p>		

**Table 3. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(4) 61P-W098R		
(5) 52P-D026C		
(6) Station 8, 28vdc power control relay (61K-D161)		
(7) Door 10L/R		
(8) Door 14R		
(9) Door 502		
(10) Disconnect proximity switch control		
(11) Aircraft Wing Pylon SUU-63( ) .....	-	-

**Table 4. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Applicable Weapon Station 2, 3, 7, 8 Power Control Schematic (A1-F18AC-740-500, WP027 00, WP028 00, WP032 00 or WP033 00) and Weapon Station 2, 3, 7 AGM-88 HARM Schematic (A1-F18AC-740-500, WP055 00) and Selective Jettison/Auxiliary Release Schematic (A1-F18AC-740-500, WP019 00) may be used as aids when doing this procedure.	
For component location, refer to WP010 00.	
Malfunction is caused by one of the items below:	
Aircraft Weapons Control Test Set AN/AWM-92	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
LAU-118 HARM Jumper Cable W56228	
No. 4 Circuit Breaker Panel Assembly	
No. 7 Circuit Breaker/Relay Panel Assembly	
No. 10 Relay Panel Assembly	
No. 11 Relay Panel Assembly	

**Table 4. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect 61P-W098R of LAU-118 HARM jumper cable from aircraft weapon control test set.</li> <li>(3) Connect jumper wire between 61P-W098R pin R (HARM Ident) and aircraft ground.</li> <li>(4) Open door 14R (A1-F18AC-LMM-010).</li> <li>(5) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 64 for failed station.</li> </ol>		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<ol style="list-style-type: none"> <li>(6) Connect proximity switch control (A1-F18AC-LMM-000).</li> <li>(7) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(8) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</li> <li>(9) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</li> <li>(10) On master arm control panel assembly, press and release A/G switch.</li> <li>(11) On master arm control panel assembly, set MASTER switch to ARM.</li> <li>(12) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</li> </ol>		

**Table 4. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(13) On flaps, landing gear and stores indicator panel, press and release LI, LO, RI or RO JETT STATION SELECT switch for station under test.		
(14) On LH vertical console control panel, set SELECT JETT switch to STORES.		
(15) Do substeps listed below:		
(a) Connect multimeter between 61P-W098R pin F and aircraft ground.		
(b) On LH vertical console control panel assembly, press and release SELECT JETT switch, JETT pushbutton.		
(c) Did 28vdc exist at 61P-W098R pin F? .....	b	d
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 on AGM-88 jumper cable from 61J-W112.		
(4) Does continuity exist from:		
61P-W112 pin 24 to 61P-W098R pin F		
61P-W112 pin 40 to 61P-W098R pin D		
61P-W112 pin 70 to 61P-W098R pin R? .....	c	f
c. Replace LAU-118 HARM Jumper Cable W56228 (A1-F18AC-740-300, WP037 02 and do step ab .....	-	-
d. Do substeps listed below:		
(1) Connect multimeter between 61P-W098R pin D and aircraft ground.		
(2) Does 28vdc exist at 61P-W098R pin D? .....	h	e
e. Replace Aircraft Weapon Control Test Set and do step ab .....	-	-
f. Do substeps listed below:		
(1) Disconnect 61P-W012C from J3 on Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).		
(2) Does continuity exist from:		
61J-W112 pin 24 to 61P-W012C pin C		
61J-W112 pin 70 to 61P-W012C pin x? .....	i	g

**Table 4. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
g. Replace Wing Pylon Command Signal Encoder Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00 and do step ab .....	-	-
h. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 on AGM-88 jumper cable from 61J-W112.		
(4) Does continuity exist between 61P-W112 pin 40 and 61P-W098R pin D? .....	c	j
i. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step ab .....	-	-
j. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00)		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) Does 28vdc exist between:		
Station 2: 52J-U062 pin 52/53 and aircraft ground		
Station 3: 52J-U063 pin 52/53 and aircraft ground		
Station 7: 52J-V067 pin 52/53 and aircraft ground		
Station 8: 52J-V068 pin 52/53 and aircraft ground? .....	k	i
k. Is this station 2 or 3? .....	l	u
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
(4) Does continuity exist from:		
Station 7: 52J-V067 pin 52 or 53 to 52P-V044C pin a		
Station 8: 52J-V068 pin 52 or 53 to 52P-V044C pin b .....	m	n
m. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ab .....	-	-
n. Do substeps listed below:		
(1) Disconnect 52P-V044B from no. 10 circuit breaker panel assembly.		



**Table 4. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) Turn on electrical power (A1-F18AC-LMM-000)		
(3) Does 28vdc exist between 52P-V044B pin s and aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000)		
(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYK-9(V).		
(3) Does continuity exist between 61P-F001B pin 24 and 52P-V0044B pin s? .....	m	t
p. Does 28 VDC exist from:		
Station 7: 52P-V044B pin JJ and aircraft ground		
Station 8: 52P-V044B pin z and aircraft ground? .....	q	s
q. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) Does continuity exist between:		
Station 7: 52P-D026C pin x and 52P-V044B pin JJ		
Station 8: 52P-D026C pin q and 52P-V044B pin z? .....	m	r
r. Do one of the items listed below:		
Station 7: Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD146 (A1-F18AC-420-300, WP025 00).		
Station 8: Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD149 (A1-F18AC-420-300, WP025 00).		
Do step ab .....	-	-
s. Do one of the items listed below:		
Station 7: Isolate no. 10 relay panel assembly wiring and 61K-V147 (A1-F18AC-420-300, WP042 00). Do step ab .....	-	-
Station 8: Isolate no. 10 relay panel assembly wiring and 61K-V161 (A1-F18AC-420-300, WP042 00). Do step ab .....	-	-

**Table 4. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
t. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AE-740-300, WP006 00) and do step ab .....	-	-
u. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Open door 79L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-U045C from no. 11 relay panel assembly.		
(4) Does continuity exist from:		
Station 2: 52J-U062 pin 52 or 53 to 52P-U045C pin b		
Station 3: 52J-U063 pin 52 or 53 to 52P-U045C pin a? .....	m	v
v. Do substeps listed below:		
(1) Disconnect 52P-U045B from no. 11 relay panel assembly.		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) Does 28vdc exist between 52P-U045B pin s and aircraft ground? .....	w	x
w. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Does continuity exist between 61P-F001B pin 122 and 52P-U045B pin s? .....	m	t
x. Does 28vdc exist between:		
Station 2: 52P-U045B pin z and aircraft ground		
Station 3: 52P-U045B pin JJ and aircraft ground? .....	y	aa
y. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		
(4) Does continuity exist between:		
Station 2: 52J-C057C pin q and 52P-U045B pin z		
Station 3: 52J-C057C pin a and 52P-U045B pin JJ? .....	m	z

**Table 4. Test Set, Displays Wrong Indication For SELECT JETT –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>z. Do one of the items below:</p> <p>(1) Station 2: Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and 61CBC145 (A1-F18AC-420-300, WP027 00).</p> <p>(2) Station 3: Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and 61CBC144 (A1-F18AC-420-300, WP027 00).</p> <p>Do step ab .....</p>	-	-
<p>aa. Isolate malfunction between:</p> <p>Station 2: Isolate no. 11 relay panel assembly wiring and 61K-U142 (A1-F18AC-420-300, WP043 00).</p> <p>Station 3: Isolate no. 11 relay panel assembly wiring and 61K-U141 (A1-F18AC-420-300, WP043 00).</p> <p>Do step ab .....</p>	-	-
<p>ab. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 61P-W112</p> <p>(2) 52P-V044B</p> <p>(3) 52P-V044C</p> <p>(4) 52P-U045B</p> <p>(5) 52P-U045C</p> <p>(6) 52P-C057C</p> <p>(7) 61P-W098R</p> <p>(8) 52P-D026C</p> <p>(9) Door 79L/R</p> <p>(10) Door 10L/R</p> <p>(11) Door 14R</p> <p>(12) Door 502</p> <p>(13) Aircraft Wing Pylon SUU-63( )</p> <p>(14) Proximity Switch Control .....</p>	-	-



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-88 HARM WEAPON STATION POWER CONTROL, PART 1

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

## Alphabetical Index

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**Table 1. HARM Weapon Station 2 115vac Power Control Fail**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN 74D420030-1001	Multimeter Proximity Switch Control	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 2 Power Control Schematic and Weapon Station 2, 3, 7, 8 AGM-88 HARM Schematic (A1-F18AC-740-500, WP027 00 and WP055 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Weapons Control Test Set AN/AWM-92</li> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Armament Computer CP-1342/AYQ-9(V)</li> <li>HARM Jumper Cable W56228</li> <li>Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> <li>No. 7 Circuit Breaker/Relay Panel Assembly</li> <li><div style="border: 1px solid black; padding: 2px; display: inline-block;">2</div> No. 11 Relay Panel Assembly</li> </ul>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="border: 2px solid black; border-radius: 10px; padding: 5px; width: fit-content; margin: 0 auto;"> <b>CAUTION</b> </div> <p style="margin-top: 20px;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p><div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> 52P-C057E</p>		

Table 1. HARM Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.		
(4) Connect jumper wire between 61P-W098R pin R (HARM Ident) and aircraft ground.		
(5) Close BRU-32 FWD and AFT hooks.		
<div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(6) Connect proximity switch control (A1-F18AC-LMM-000).		
(7) Turn electrical power on (A1-F18AC-LMM-000).		
(8) On proximity switch control, set LEFT GEAR switch to WEIGHT OFF WHEELS.		
(9) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(10) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(11) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		

Table 1. HARM Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
(b) Press STORES pushbutton switch.		
(c) Is 1 HARM symbol on stores display for station 2? .....	c	d
c. Troubleshoot Station 2 Does Not Display 1 HARM On Stores Display (WP010 22, <input type="checkbox"/> 1 Table 3 or <input type="checkbox"/> 2 Table 3A) .....	-	-
d. Do substeps below:		
(1) On RDDI, press HARM pushbutton switch.		
(2) Memory inspect station 2 weapon power control (CORESV+4/BIT 6) by doing substeps below:		
(a) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(b) On RDDI, does DATA readout display XX3XXX? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between 61P-W098R pins E, C, A and pin T (aircraft ground)? .....	h	g
g. Replace Weapons Control Test Set AN/AWM-92. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		



Table 1. HARM Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
(4) Does continuity exist between:  61P-W112 pin 39 and 61P-W098R pin E 61P-W112 pin 49 and 61P-W098R pin C 61P-W112 pin 60 and 61P-W098R pin A 61P-W112 pin 50 and 61P-W098R pin T? .....	i	j
i. Replace HARM Jumper Cable W56228 (A1-F18AC-740-300, WP037 02). Do step ad .....	-	-
j. Do substeps below:  (1) Connect 61P-W112 to AIR-GND pylon disconnect.  (2) Open <input type="checkbox"/> door 10L or <input type="checkbox"/> door 79L (A1-F18AC-LMM-010).  (3) Disconnect <input type="checkbox"/> 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 52P-U045C from no. 11 relay panel assembly.  (4) Does continuity exist between:  <input type="checkbox"/> 52P-C057C pin u or <input type="checkbox"/> 52P-U045C pin e and 61P-W098R pin E <input type="checkbox"/> 52P-C057C pin t or <input type="checkbox"/> 52P-U045C pin d and 61P-W098R pin C <input type="checkbox"/> 52P-C057C pin s or <input type="checkbox"/> 52P-U045C pin c and 61P-W098R pin A Aircraft ground and 61P-W098R pin T? .....	k	n
k. Do substeps below:  (1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:  52J-U062 pin 95 and 52P-C057C pin u 52J-U062 pin 96 and 52P-C057C pin t 52J-U062 pin 97 and 52P-C057C pin s 52J-U062 pin 107 and aircraft ground? .....	l	m
(3) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:  52J-U062 pin 73 and 52P-C057C pin u 52J-U062 pin 74 and 52P-C057C pin t 52J-U062 pin 86 and 52P-C057C pin s 52J-U062 pin 69 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-

Table 1. HARM Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>n. Do substeps below:</p> <p>(1) Disconnect <input type="checkbox"/> 1 52P-C057E from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045B from no. 11 relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s and aircraft ground? .....</p>	o	p
<p>o. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 122 and <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s? .....</p>	l	e
<p>p. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) <input type="checkbox"/> 1 Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.</p> <p>(5) <input type="checkbox"/> 1 Does continuity exist between 61P-F001B pin 26 and 52P-C057F pin 14? ...</p> <p><input type="checkbox"/> 2 Does continuity exist between 61P-F001B pin 26 and 52P-U045B pin e? ....</p>	l l	s t
<p>q. <input type="checkbox"/> 2 Do substeps below:</p> <p>(1) Disconnect 52P-U045A.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) Does 115vac exists between 52P-U045A pins A, B, S and aircraft ground? .....</p>	r	t

Table 1. HARM Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>r. <input type="checkbox"/> 2 Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p> <p>(4) Does continuity exist between:</p> <p>52P-C057C pin u and 52P-U045A pin A  52P-C057C pin t and 52P-U045A pin B  52P-C057C pin s and 52P-U045A pin S? .....</p>	l	s
<p>s. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, station 2 power control relay (61K-C122), and ARM STA 2 circuit breakers (61CBC056, 61CBC057, 61CBC058) (A1-F18AC-420-300, WP027 00). Do step ad .....</p>	-	-
<p>t. <input type="checkbox"/> 2 Isolate malfunction between no. 11 relay panel assembly wiring and station 2 power control relay (61K-U122) (A1-F18AC-420-300, WP043 00). Do step ad .....</p>	-	-
<p>u. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 HARM symbol on stores display for station 2? .....</p>	y	v

Table 1. HARM Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from encoder-decoder.		
(4) Does short exist between 61P-W012C pin x (HARM Ident) and aircraft ground? . . . . .	w	x
w. Replace Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad . . . . .	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(3) Does short exist between 61P-W012C pin x (HARM Ident) and aircraft ground? . . . . .	i	m
y. Memory inspect station 2 weapon power control (CORESV+4/BIT 6) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<b>NOTE</b>		
<p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XX3XXX? . . . . .	z	e
z. Does 115vac exist between 61P-W098R pins E, C, A and pin T (aircraft ground)? . . . . .	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		

Table 1. HARM Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p align="center"><b>NOTE</b></p> <p align="center">Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
<p>(4) On HARM Jumper Cable W56228, does continuity exist between:</p> <p>61P-W112 pin 39 and 61P-W098R pin E</p> <p>61P-W112 pin 49 and 61P-W098R pin C</p> <p>61P-W112 pin 60 and 61P-W098R pin A? .....</p>	i	ab
<p>ab. Do substeps below:</p> <p>(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-U062 pins 95, 96, 97 and aircraft ground? .....</p> <p>(4) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-U062 pins 73, 74, 86 and aircraft ground? .....</p>	m	ac
<p>ac. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.</p>	m	ac
<p align="center"><b>NOTE</b></p> <p align="center">Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
<p>(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:</p> <p>52J-U062 pin 95 and 52P-C057C pin u</p> <p>52J-U062 pin 96 and 52P-C057C pin t</p> <p>52J-U062 pin 97 and 52P-C057C pin s? .....</p>	l	s
<p>(5) ON 162394 AND UP, ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74.</p> <p>(a) <input type="checkbox"/> 1 Does continuity exist between:</p> <p>52J-U062 pin 73 and 52P-C057C pin u</p> <p>52J-U062 pin 74 and 52P-C057C pin t</p> <p>52J-U062 pin 86 and 52P-C057C pin s? .....</p>	l	s
<p>(b) <input type="checkbox"/> 2 Does continuity exist between:</p> <p>52J-U062 pin 73 and 52P-U045C pin e</p> <p>52J-U062 pin 74 and 52P-U045C pin d</p> <p>52J-U062 pin 86 and 52P-U045C pin c? .....</p>	l	t

Table 1. HARM Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:  (1) 52P-C057C 1 (2) 52P-C057E 1 (3) 52P-C057F 2 (4) 52P-U045A 2 (5) 52P-U045B 2 (6) 52P-U045C  (7) 61P-W112 (8) 61P-W012C (9) 61P-W098R (10) 61P-F001B (11) Doors 10L, 14R, 502, 504, 79L (12) Jumper wire (61P-W098R) (13) Disconnect proximity switch control (14) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 2. HARM Weapon Station 3 115vac Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
74D420030-1001	Proximity Switch Control
Materials Required	
None	

**Table 2. HARM Weapon Station 3 115vac Power Control Fail (Continued)**


<b>NOTE</b>		
<p>Weapon Station 3 Power Control Schematic and Weapon Station 2, 3, 7, 8 AGM-88 HARM Schematic (A1-F18AC-740-500, WP028 00 and WP055 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Weapons Control Test Set AN/AWM-92</li> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Armament Computer CP-1342/AYQ-9(V)</li> <li>HARM Jumper Cable W56228</li> <li>Left Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> <li>No. 7 Circuit Breaker/Relay Panel Assembly</li> <li><div style="border: 1px solid black; display: inline-block; width: 15px; height: 15px; text-align: center; line-height: 15px;">2</div> No. 11 Relay Panel Assembly</li> </ul>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p><div style="border: 1px solid black; display: inline-block; width: 15px; height: 15px; text-align: center; line-height: 15px;">1</div> 52P-C057E</p> <div style="text-align: center; margin-top: 10px;"> <b>NOTE</b> </div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u

Table 2. HARM Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>b. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.</p> <p>(4) Connect jumper wire between 61P-W098R pin R (HARM Ident) and aircraft ground.</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p>		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>(6) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(7) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(8) On proximity switch control, set LEFT GEAR switch to WEIGHT OFF WHEELS.</p> <p>(9) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(10) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(11) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 HARM symbol on stores display for station 3? .....</p>	c	d
<p>c. Troubleshoot Station 3 Does Not Display 1 HARM On Stores Display (WP010 24, <input type="checkbox"/> 1 Table 3 or <input type="checkbox"/> 2 Table 3A) .....</p>	-	-
<p>d. Do substeps below:</p> <p>(1) On RDDI, press HARM pushbutton switch.</p> <p>(2) Memory inspect station 3 weapon power control (CORESV +4/BIT 13) by doing substeps below:</p>		



Table 2. HARM Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
(a) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(b) On RDDI, does DATA readout display XXXXX6? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between 61P-W098R pins E, C, A and pin T (aircraft ground)? .....	h	g
g. Replace Weapons Control Test Set AN/AWM-92. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) Does continuity exist between:		
61P-W112 pin 39 and 61P-W098R pin E		
61P-W112 pin 49 and 61P-W098R pin C		
61P-W112 pin 60 and 61P-W098R pin A		
61P-W112 pin 50 and 61P-W098R pin T? .....	i	j
i. Replace HARM Jumper Cable W56228 (A1-F18AC-740-300, WP037 02). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.		

Table 2. HARM Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(4) Does continuity exist between:</p> <p><input type="checkbox"/> 52P-C057C pin p or <input type="checkbox"/> 52P-U045C pin f and 61P-W098R pin E</p> <p><input type="checkbox"/> 52P-C057C pin n or <input type="checkbox"/> 52P-U045C pin T and 61P-W098R pin C</p> <p><input type="checkbox"/> 52P-C057C pin m or <input type="checkbox"/> 52P-U045C pin U and 61P-W098R pin A</p> <p>Aircraft ground and 61P-W098R pin T? .....</p>	k	n
k. Do substeps below:		
<p>(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:</p> <p>52J-U063 pin 95 and 52P-C057C pin p</p> <p>52J-U063 pin 96 and 52P-C057C pin n</p> <p>52J-U063 pin 97 and 52P-C057C pin m</p> <p>52J-U063 pin 107 and aircraft ground? .....</p>	l	m
<p>(3) ON 162394 AND UP, ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:</p> <p>52J-U063 pin 73 and <input type="checkbox"/> 52P-C057C pin p or <input type="checkbox"/> 52P-U045C pin f</p> <p>52J-U063 pin 74 and <input type="checkbox"/> 52P-C057C pin n or <input type="checkbox"/> 52P-U045C pin T</p> <p>52J-U063 pin 86 and <input type="checkbox"/> 52P-C057C pin m or <input type="checkbox"/> 52P-U045C pin U</p> <p>52J-U063 pin 69 and aircraft ground? .....</p>	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
<p>(1) Disconnect <input type="checkbox"/> 52P-C057E from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 52P-U045B from no. 11 relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(4) Does 28vdc exist between <input type="checkbox"/> 52P-C057E pin 71 or <input type="checkbox"/> 52P-U045B pin s and aircraft ground? .....</p>	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		

Table 2. HARM Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) <input type="checkbox"/> 1 Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.		
(5) <input type="checkbox"/> 1 Does continuity exist between 61P-F001B pin 23 and 52P-C057F pin 12? ...	l	s
<input type="checkbox"/> 2 Does continuity exist between 61P-F001B pin 23 and 52P-U045B pin d? ....	l	t
q. Do substeps below:		
(1) Disconnect 52P-U045A.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exists between 52P-U045A pins d, c, f and aircraft ground? .....	r	t
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		
(4) Does continuity exist between:		
52P-C057C pin p and 52P-U045A pin d		
52P-C057C pin n and 52P-U045A pin c		
52P-C057C pin m and 52P-U045A pin f? .....	l	s
s. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and station 3 power control relay (61K-C123), and ARM STA 3 circuit breakers (61CBC060, 61CBC061, 61CBC062) (A1-F18AC-420-300, WP027 00). Do step ad .....	-	-
t. Isolate malfunction between no. 11 relay panel assembly wiring and station 3 power control relay (61K-U123) (A1-F18AC-420-300, WP043 00). Do step ad .....	-	-

Table 2. HARM Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
u. Do substeps below: <ul style="list-style-type: none"> <li>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</li> <li>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.</li> <li>(4) Turn electrical power on (A1-F18AC-LMM-000).</li> <li>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</li> <li>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</li> <li>(7) On RDDI:               <ul style="list-style-type: none"> <li>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</li> <li>(b) Press STORES pushbutton switch.</li> <li>(c) Is 1 HARM symbol on stores display for station 3? . . . . .</li> </ul> </li> </ul>	y	v
v. Do substeps below: <ul style="list-style-type: none"> <li>(1) Turn electrical power off (A1-F18AC-LMM-000).</li> <li>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 61P-W012C from encoder-decoder.</li> <li>(4) Does short exist between 61P-W012C pin x (HARM Ident) and aircraft ground? . . . . .</li> </ul>	w	x
w. Replace Left Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad . . . . .	-	-
x. Do substeps below: <ul style="list-style-type: none"> <li>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</li> <li>(2) Disconnect 61P-W112 from AIR-GND pylon disconnect.</li> <li>(3) Does short exist between 61P-W012C pin x (HARM Ident) and aircraft ground? . . . . .</li> </ul>	i	m
y. Memory inspect station 3 weapon power control (CORESV+4/BIT 13) by doing substeps below: <ul style="list-style-type: none"> <li>(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).</li> </ul>		



Table 2. HARM Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXXX6? .....	z	e
z. Does 115vac exist between 61P-W098R pins E, C, A and pin T (aircraft ground)? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(4) On HARM Jumper Cable W56228, does continuity exist between:		
61P-W112 pin 39 and 61P-W098R pin E		
61P-W112 pin 49 and 61P-W098R pin C		
61P-W112 pin 60 and 61P-W098R pin A? .....	i	ab
ab. Do substeps below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-U063 pins 95, 96, 97 and pin 107 (aircraft ground)? .....	m	ac
(4) ON 162394 AND UP, ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-U063 pins 73, 74, 86 and pin 69 (aircraft ground)? .....	m	ac
ac. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		

Table 2. HARM Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:  52P-C057C pin p and 52J-U063 pin 95 52P-C057C pin n and 52J-U063 pin 96 52P-C057C pin m and 52J-U063 pin 97? .....	1	s
(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74.		
(a) <input type="checkbox"/> 1 Does continuity exist between:  52P-C057C pin p and 52J-U063 pins 73 52P-C057C pin n and 52J-U063 pins 74 52P-C057C pin m and 52J-U063 pins 86? .....	1	s
(b) <input type="checkbox"/> 2 Does continuity exist between:  52P-U045C pin f and 52J-U063 pin 73 52P-U045C pin T and 52J-U063 pin 74 52P-U045C pin U and 52J-U063 pin 86? .....	1	t
ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.		
(1) 52P-C057C		
<input type="checkbox"/> 1 (2) 52P-C057E		
<input type="checkbox"/> 1 (3) 52P-C057F		
<input type="checkbox"/> 2 (4) 52P-U045A		
<input type="checkbox"/> 2 (5) 52P-U045B		
<input type="checkbox"/> 2 (6) 52P-U045C		
(7) 61P-W112		
(8) 61P-W012C		
(9) 61P-W098R		
(10) 61P-F001B		

Table 2. HARM Weapon Station 3 115vac Power Control Fail (Continued)

Procedure	No	Yes
(11) Doors 10L, 14R, 502, 504, 79L		
(12) Jumper wire (61P-W098R)		
(13) Disconnect proximity switch control		
(14) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		





## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-88 HARM WEAPON STATION POWER CONTROL, PART 2

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. HARM Weapon Station 7 115vac Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
74D420030-1001	Proximity Switch Control

Table 1. HARM Weapon Station 7 115vac Power Control Fail (Continued)


Materials Required		
None		
<b>NOTE</b>		
Weapon Station 7 Power Control AGM-88 HARM Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-88 HARM Schematic (A1-F18AC-740-500, WP032 00 and WP055 00) may be used as aids when doing this procedure.		
For component locations, refer to WP007 00.		
Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:		
Aircraft Weapons Control Test Set AN/AWM-92		
Aircraft Wing Pylon SUU-63( )		
Aircraft Wiring		
Armament Computer CP-1342/AYQ-9(V)		
HARM Jumper Cable W56228		
No. 2 Circuit Breaker Panel Assembly		
<input type="checkbox"/>	No. 2 Relay Panel Assembly	
<input type="checkbox"/>	No. 4 Circuit Panel Assembly	
<input type="checkbox"/>	No. 10 Relay Panel Assembly	
Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	v

Table 1. HARM Weapon Station 7 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>b. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.</p> <p>(4) Connect jumper wire between 61P-W098R pin R (HARM Ident) and aircraft ground.</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p>		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>(6) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(7) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(8) On proximity switch control, set LEFT GEAR switch to WEIGHT OFF WHEELS.</p> <p>(9) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(10) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(11) On RDDI:</p> <p style="padding-left: 40px;">(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p style="padding-left: 40px;">(b) Press STORES pushbutton switch.</p> <p style="padding-left: 40px;">(c) Is 1 HARM symbol on stores display for station 7? .....</p>	c	d
<p>c. Troubleshoot Station 7 Does Not Display 1 HARM On Stores Display (WP010 27, <span style="border: 1px solid black; padding: 0 2px;">1</span> Table 3 or <span style="border: 1px solid black; padding: 0 2px;">2</span> Table 3A) .....</p>	-	-
<p>d. Do substeps below.</p> <p>(1) On RDDI, press HARM pushbutton switch.</p> <p>(2) Memory inspect station 7 weapon power control (CORESV + 2/BIT 13) by doing substeps below:</p>		

Table 1. HARM Weapon Station 7 115vac Power Control Fail (Continued)

Procedure	No	Yes
(a) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(b) On RDDI, does DATA readout display XXXXX5? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ae .....	-	-
f. Does 115vac exist between 61P-W098R pins E, C, A and pin T (aircraft ground)? .....	h	g
g. Replace Aircraft Weapons Control Test Set AN/AWM-92. Do step ae .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 602 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) Does continuity exist between:		
61P-W112 pin 39 and 61P-W098R pin E		
61P-W112 pin 49 and 61P-W098R pin C		
61P-W112 pin 60 and 61P-W098R pin A		
61P-W112 pin 50 and 61P-W098R pin T? .....	i	j
i. Replace HARM Jumper Cable W56228 (A1-F18AC-740-300, WP037 02). Do step ae .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.		

Table 1. HARM Weapon Station 7 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(4) Does continuity exist between:</p> <p><input type="checkbox"/> 52P-F058D pin J or <input type="checkbox"/> 52P-V044C pin f and 61P-W098R pin E</p> <p><input type="checkbox"/> 52P-F058D pin K or <input type="checkbox"/> 52P-V044C pin T and 61P-W098R pin C</p> <p><input type="checkbox"/> 52P-F058D pin L or <input type="checkbox"/> 52P-V044C pin U and 61P-W098R pin A</p> <p>Aircraft ground and 61P-W098R pin T? .....</p>	k	n
<p>k. Do substeps below:</p> <p>(1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:</p> <p>52J-V067 pin 95 and 52P-F058D pin J</p> <p>52J-V067 pin 96 and 52P-F058D pin K</p> <p>52J-V067 pin 97 and 52P-F058D pin L</p> <p>52J-V067 pin 107 and aircraft ground? .....</p> <p>(3) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:</p> <p>52J-V067 pin 73 and <input type="checkbox"/> 52P-F058D pin J or <input type="checkbox"/> 52P-V044C pin f</p> <p>52J-V067 pin 74 and <input type="checkbox"/> 52P-F058D pin K or <input type="checkbox"/> 52P-V044C pin T</p> <p>52J-V067 pin 86 and <input type="checkbox"/> 52P-F058D pin L or <input type="checkbox"/> 52P-V045C pin U</p> <p>52J-V067 pin 69 and aircraft ground? .....</p>	l	m
<p>l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ae .....</p>	-	-
<p>m. Replace right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ae .....</p>	-	-
<p>n. Do substeps below:</p> <p>(1) Disconnect <input type="checkbox"/> 52P-F058C from no. 2 circuit breaker/relay panel assembly or <input type="checkbox"/> 52P-V044B from no. 10 relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(4) Does 28vdc exist between <input type="checkbox"/> 52P-F058C pin 38 or <input type="checkbox"/> 52P-V044B pin s and aircraft ground? .....</p>	o	p
<p>o. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p>		

Table 1. HARM Weapon Station 7 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 24 and <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s? .....</p> <p>p. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 18 and <input type="checkbox"/> 1 52P-F058C pin 49 or <input type="checkbox"/> 2 52P-V044B pin d? .....</p> <p>q. <input type="checkbox"/> 1 Do substeps below:</p> <p>(1) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(2) Does 115vac exist between 52P-F058D pins F, G, H, and aircraft ground? .....</p> <p><input type="checkbox"/> 2 Do substeps below:</p> <p>(1) Disconnect 52P-V044A from no. 10 relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) Does 115vac exist between 52P-V044A pins d, c, f, and aircraft ground? .....</p> <p>r. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10R (A1-F18AC-LMM-010).</p> <p>(3) On 161353 THRU 161359, disconnect 52P-D026C from no. 4 circuit breaker panel assembly.</p> <p>(4) On 161360 AND UP, disconnect 52P-D024C from no. 2 circuit breaker panel assembly.</p> <p>(5) On 161353 THRU 161359, does continuity exist between:</p> <p>52P-D026C pin u and 52P-F058D pin F</p> <p>52P-D026C pin v and 52P-F058D pin G</p> <p>52P-D026C pin w and 52P-F058D pin H? .....</p>	<p>l</p> <p>l</p> <p>r</p> <p>r</p> <p>l</p>	<p>e</p> <p>q</p> <p>u</p> <p>u</p> <p>s</p>

Table 1. HARM Weapon Station 7 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(6) On 161360 AND UP, does continuity exist between:</p> <p>52P-D024C pin u and <input type="checkbox"/> 52P-F058D pin F or <input type="checkbox"/> 52P-V044A pin d  52P-D024C pin g and <input type="checkbox"/> 52P-F058D pin G or <input type="checkbox"/> 52P-V044A pin c  52P-D024C pin w and <input type="checkbox"/> 52P-F058D pin H or <input type="checkbox"/> 52P-V044A pin f? . . . . .</p>	l	t
<p>s. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and ARM STA 7 circuit breakers (61CBD076, 61CBD077, 61CBD078) (A1-F18AC-420-300, WP025 00). Do step ae . . . . .</p>	-	-
<p>t. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 7 circuit breakers (61CBD076, 61CBD077, and 61CBD078) (A1-F18AC-420-300, WP024 00). Do step ae . . . . .</p>	-	-
<p>u. <input type="checkbox"/> Isolate malfunction between no. 2 relay panel assembly wiring and station 7 power control relay (62K-F127) (A1-F18AC-420-300, WP032 00). Do step ae . . . . .</p>	-	-
<p><input type="checkbox"/> Isolate malfunction between no. 10 relay panel assembly wiring and station 7 power control relay (62K-V127) (A1-F18AC-420-300, WP042 00). Do step ad . . . . .</p>	-	-
<p>v. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 HARM symbol on stores display for station 7? . . . . .</p>	z	w
<p>w. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p>		

**Table 1. HARM Weapon Station 7 115vac Power Control Fail (Continued)**

Procedure	No	Yes
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from encoder-decoder.		
(4) Does short exist between 61P-W012C pin x (HARM Ident) and aircraft ground? . . . . .	x	y
x. Replace Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ae . . . . .	-	-
y. Do substeps below		
(1) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(2) Does short exist between 61P-W012C pin x (HARM Ident) and aircraft ground? . . . . .	i	m
z. Memory inspect station 7 weapon power control (CORESV+2/BIT 13) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXXX5? . . . . .	aa	e
aa. Does 115vac exist between 61P-W098R pins E, C, A and pin T (aircraft ground)? . . . . .	g	ab
ab. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(4) On HARM Jumper Cable W56228, does continuity exist between:		



Table 1. HARM Weapon Station 7 115vac Power Control Fail (Continued)

Procedure	No	Yes
61P-W112 pin 39 and 61P-W098R pin E 61P-W112 pin 49 and 61P-W098R pin C 61P-W112 pin 60 and 61P-W098R pin A? .....	i	ac
ac. Do substeps below:		
(1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-V067 pins 95, 96, 97 and pin 107 (aircraft ground)? .....	m	ad
(4) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-V067 pins 73, 74, 86 and pin 69 (aircraft ground)? .....	m	ad
ad. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
52P-F058D pin J and 52J-V067 pin 95		
52P-F058D pin K and 52J-V067 pin 96		
52P-F058D pin L and 52J-V067 pin 97? .....	l	u
(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
<input type="checkbox"/> 1 52P-F058D pin J or <input type="checkbox"/> 2 52P-V044C pin f and 52J-V067 pin 73		
<input type="checkbox"/> 1 52P-F058D pin K or <input type="checkbox"/> 2 52P-V044C pin T and 52J-V067 pin 74		
<input type="checkbox"/> 1 52P-F058D pin L or <input type="checkbox"/> 2 52P-V044C pin U and 52J-V067 pin 86? .....	l	u
ae. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 52P-D024C		
<input type="checkbox"/> 1 (2) 52P-D026C		


Table 1. HARM Weapon Station 7 115vac Power Control Fail (Continued)

Procedure	No	Yes
<div>1</div> (3) 52P-F058C <div>1</div> (4) 52P-F058D <div>2</div> (5) 52P-V044A <div>2</div> (6) 52P-V044B <div>2</div> (7) 52P-V044C (8) 61P-W112 (9) 61P-W012C (10) 61P-W098R (11) 61P-F001B (12) Doors 10R, 14R, 502, 504, 79R (13) Jumper wire (61P-W098R) (14) Disconnect proximity switch control (15) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 2. HARM Weapon Station 8 115vac Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
74D420030-1001	Proximity Switch Control
Materials Required	
None	

**Table 2. HARM Weapon Station 8 115vac Power Control Fail (Continued)**

<b>NOTE</b>		
<p>Weapon Station 8 Power Control AGM-88 HARM Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-88 HARM Schematic (A1-F18AC-740-500, WP033 00 and WP055 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Weapons Control Test Set AN/AWM-92</li> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Armament Computer CP-1342/AYQ-9(V)</li> <li>HARM Jumper Cable W56228</li> <li>No. 2 Circuit Breaker Panel Assembly</li> <li><input type="checkbox"/> No. 2 Relay Panel Assembly</li> <li><input type="checkbox"/> No. 4 Circuit Panel Assembly</li> <li><input type="checkbox"/> No. 10 Relay Panel Assembly</li> <li>Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> </ul>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
 <p style="margin-top: 20px;">To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center; margin-top: 20px;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Is troubleshooting being done for 115vac existing when it should be off? .....</p> <p>b. Do substeps below:</p> <p style="margin-left: 20px;">(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p>	b	v

**Table 2. HARM Weapon Station 8 115vac Power Control Fail (Continued)**

Procedure	No	Yes
<p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.</p> <p>(4) Connect jumper wire between 61P-W098R pin R (HARM Ident) and aircraft ground.</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p>		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>(6) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(7) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(8) On proximity switch control, set LEFT GEAR switch to WEIGHT OFF WHEELS.</p> <p>(9) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(10) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(11) On RDDI:</p> <p style="padding-left: 40px;">(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p style="padding-left: 40px;">(b) Press STORES pushbutton switch.</p> <p style="padding-left: 40px;">(c) Is 1 HARM symbol on stores display for station 8? .....</p>		
c. Troubleshoot Station 8 Does Not Display 1 HARM On Stores Display (WP010 28, Table 3 or <span style="border: 1px solid black; padding: 0 2px;">2</span> Table 3A) .....	c	d
d. Memory inspect station 8 weapon power control <span style="border: 1px solid black; padding: 0 2px;">1</span> (CORESV+6/BIT 11) by <span style="border: 1px solid black; padding: 0 2px;">2</span> (CORESV+8/BIT 12) by doing substeps below:	-	-
<p>(1) Using unit address 06, memory inspect address for ref code <span style="border: 1px solid black; padding: 0 2px;">1</span> CORESV+6 or <span style="border: 1px solid black; padding: 0 2px;">2</span> CORESV+8 (table 2, WP010 19).</p>		

Table 2. HARM Weapon Station 8 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display <input type="checkbox"/> 1 XXXX2X or <input type="checkbox"/> 2 XXXX1X? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ae .....	-	-
f. Does 115vac exist between 61P-W098R pins E, C, A and pin T (aircraft ground)? .....	h	g
g. Replace AN/AWM-92 Weapons Control Test Set. Do step ae .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(4) Does continuity exist between:		
61P-W112 pin 39 and 61P-W098R pin E		
61P-W112 pin 49 and 61P-W098R pin C		
61P-W112 pin 60 and 61P-W098R pin A		
61P-W112 pin 50 and 61P-W098R pin T? .....	i	j
i. Replace HARM Jumper Cable W56228 (A1-F18AC-740-300, WP037 02). Do step ae .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.		
(4) Does continuity exist between:		
<input type="checkbox"/> 1 52P-F058D pin C or <input type="checkbox"/> 2 52P-V044C pin e and 61P-W098R pin E		
<input type="checkbox"/> 1 52P-F058D pin D or <input type="checkbox"/> 2 52P-V044C pin d and 61P-W098R pin C		
<input type="checkbox"/> 1 52P-F058D pin E or <input type="checkbox"/> 2 52P-V044C pin c and 61P-W098R pin A		
Aircraft ground and 61P-W098R pin T? .....	k	n

Table 2. HARM Weapon Station 8 115vac Power Control Fail (Continued)

Procedure	No	Yes
k. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
52J-V068 pin 95 and 52P-F058D pin C		
52J-V068 pin 96 and 52P-F058D pin D		
52J-V068 pin 97 and 52P-F058D pin E		
52J-V068 pin 107 and aircraft ground? .....	l	m
(3) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
52J-V068 pin 73 and <input type="checkbox"/> 1 52P-F058D pin C or <input type="checkbox"/> 2 52P-V044C pin e		
52J-V068 pin 74 and <input type="checkbox"/> 1 52P-F058D pin D or <input type="checkbox"/> 2 52P-V044C pin d		
52J-V068 pin 86 and <input type="checkbox"/> 1 52P-F058D pin E or <input type="checkbox"/> 2 52P-V044C pin c		
52J-V068 pin 69 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ae .....	-	-
m. Replace right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ae .....	-	-
n. Do substeps below		
(1) Disconnect <input type="checkbox"/> 1 52P-F058C from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044B from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s and aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 24 and <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s? .....	l	e

Table 2. HARM Weapon Station 8 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>p. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 28 and <input type="checkbox"/> 52P-C057C pin 73 or <input type="checkbox"/> 52P-V044B pin e? .....</p>	l	q
<p>q. <input type="checkbox"/> Do substeps below:</p> <p>(1) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(2) Does 115vac exist between 52P-F058D pins S, A, B, and aircraft ground? .....</p> <p><input type="checkbox"/> Do substeps below:</p> <p>(1) Disconnect 52P-V044A from no. 10 relay panel assembly.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) Does 115vac exist between 52P-V044A pins A, B, S, and aircraft ground? .....</p>	r	u
<p>r. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10R (A1-F18AC-LMM-010).</p> <p>(3) On 161353 THRU 161359, disconnect 52P-D026C from no. 4 circuit breaker panel assembly.</p> <p>(4) On 161360 AND UP, disconnect 52P-D024C from no. 2 circuit breaker panel assembly.</p> <p>(5) On 161353 THRU 161359, does continuity exist between:</p> <p>52P-D026C pin p and 52P-F058D pin S  52P-D026C pin a and 52P-F058D pin A  52P-D026C pin b and 52P-F058D pin B? .....</p> <p>(6) On 161360 AND UP, does continuity exist between:</p> <p>52P-D024C pin p and <input type="checkbox"/> 52P-F058D pin S or <input type="checkbox"/> 52P-V044A pin A  52P-D024C pin a and <input type="checkbox"/> 52P-F058D pin A or <input type="checkbox"/> 52P-V044A pin B  52P-D024C pin b and <input type="checkbox"/> 52P-F058D pin B or <input type="checkbox"/> 52P-V044A pin S? .....</p>	l	s
	l	t

**Table 2. HARM Weapon Station 8 115vac Power Control Fail (Continued)**



Procedure	No	Yes
s. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and ARM STA 8 circuit breakers (61CBD080, 61CBD081, and 61CBD082) (A1-F18AC-420-300, WP025 00). Do step ae .....	-	-
t. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 8 circuit breakers (61CBD080, 61CBD081, and 61CBD082) (A1-F18AC-420-300, WP024 00). Do step ae .....	-	-
u.  Isolate malfunction between no. 2 relay panel assembly wiring and station 8 power control relay (62K-F128) (A1-F18AC-420-300, WP032 00). Do step ae ....	-	-
 Isolate malfunction between no.10 relay panel assembly wiring and station 8 power control relay (62K-V128) (A1-F18AC-420-300, WP042 00). Do step ad ....	-	-
v. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(7) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 HARM symbol on stores display for station 8? .....	z	w
w. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from encoder-decoder.		
(4) Does short exist between 61P-W012C pin x (HARM Ident) and aircraft ground? .....	x	y



Table 2. HARM Weapon Station 8 115vac Power Control Fail (Continued)

Procedure	No	Yes
x. Replace Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ae .....	-	-
y. Do substeps below:		
(1) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
(2) Does short exist between 61P-W012C pin x (HARM Ident) and aircraft ground? .....	i	m
z. Memory inspect station 8 weapon power control <input type="checkbox"/> 1 (CORESV+6/BIT 11) or <input type="checkbox"/> 2 (CORESV+8/BIT 12) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code <input type="checkbox"/> 1 CORESV+6 or <input type="checkbox"/> 2 CORESV+8 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display <input type="checkbox"/> 1 XXXX2X or <input type="checkbox"/> 2 XXXX1X? .....	aa	e
aa. Does 115vac exist between 61P-W098R pins E, C, A and pin T (aircraft ground)? .....	g	ab
ab. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W112 from AIR-GND pylon disconnect.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(4) On HARM Jumper Cable W56228, does continuity exist between:		
61P-W112 pin 39 and 61P-W098R pin E		
61P-W112 pin 49 and 61P-W098R pin C		
61P-W112 pin 60 and 61P-W098R pin A? .....	i	ac

Table 2. HARM Weapon Station 8 115vac Power Control Fail (Continued)

Procedure	No	Yes
ac. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-V068 pins 95, 96, 97 and aircraft ground? .....	m	ad
(4) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-V068 pins 73, 74, 86 and aircraft ground? .....	m	ad
ad. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
52J-V068 pin 95 and 52P-F058D pin C		
52J-V068 pin 96 and 52P-F058D pin D		
52J-V068 pin 97 and 52P-F058D pin E? .....	l	u
(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
52J-V068 pin 73 and <input type="checkbox"/> 1 52P-F058D pin C or <input type="checkbox"/> 2 52P-V044C pin e		
52J-V068 pin 74 and <input type="checkbox"/> 1 52P-F058D pin D or <input type="checkbox"/> 2 52P-V044C pin d		
52J-V068 pin 86 and <input type="checkbox"/> 1 52P-F058D pin E or <input type="checkbox"/> 2 52P-V044C pin c? .....	l	u
ae. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 52P-D024C		
<input type="checkbox"/> (2) 52P-D026C		
<input type="checkbox"/> (3) 52P-F058C		

**Table 2. HARM Weapon Station 8 115vac Power Control Fail (Continued)**

Procedure	No	Yes
<input type="checkbox"/> (4) 52P-F058D		
<input type="checkbox"/> (5) 52P-V044A		
<input type="checkbox"/> (6) 52P-V044B		
<input type="checkbox"/> (7) 52P-V044C		
(8) 61P-W112		
(9) 61P-W012C		
(10) 61P-W098R		
(11) 61P-F001B		
(12) Doors 10R, 14R, 502, 504, 79R		
(13) Jumper wire (61P-W098R)		
(14) Disconnect proximity switch control		
(15) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-88 HARM WEAPON STATION POWER CONTROL, PART 3

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

## Alphabetical Index

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. HARM Weapon Station 2  $\phi$ C Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 1. HARM Weapon Station 2  $\phi$ C Power Control Fail (Continued)**

NOTE		
<p>Weapon Station 2 Power Control Schematic and Weapon Station 2, 3, 7, 8 AGM-88 HARM Schematic (A1-F18AC-740-500, WP027 00 and WP055 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Weapons Control Test Set AN/AWM-92  Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  HARM Jumper Cable W56228  Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  No. 7 Circuit Breaker/Relay Panel Assembly  No. 11 Relay Panel Assembly</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p>52P-C057E</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac $\phi$ C power existing when it should be off? . . . . .	b	u
b. Do substeps below:		

**Table 1. HARM Weapon Station 2  $\phi$ C Power Control Fail (Continued)**

Procedure	No	Yes
<p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.</p> <p>(4) Connect jumper wire between 61P-W098R pin R (HARM Ident) and aircraft ground.</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p> <p>(6) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(9) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 HARM symbol on stores display for station 2? .....</p>		
c. Troubleshoot Station 2 Does Not Display 1 HARM On Stores Display (WP010 22, <input type="checkbox"/> 1 Table 3 or <input type="checkbox"/> 2 Table 3A) .....	c	d
d. Memory inspect station 2 $\phi$ C power control (CORESV+4/BIT 2) by doing substeps below:	-	-
<p>(1) Using unit address 06, memory inspect address for ref code CORESV+4, (table 2, WP010 19).</p> <p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display X2XXXX? .....	e	f

Table 1. HARM Weapon Station 2  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between 61P-W098R pin A and pin T (115vac return)? .....	h	g
g. Replace AN/AWM-92 Weapons Control Test Set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W112 from AIR-GND pylon disconnect.		
(3) Does continuity exist between:		
61P-W112 pins 45/60 and 61P-W098R pin A		
61P-W112 pin 50 and 61P-W098R pin T? .....	i	j
i. Replace HARM Jumper Cable W56228 (A1-F18AC-740-300, WP037 02). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
61P-W098R pin A and 52P-C057C pin s		
61P-W098R pin T and aircraft ground? .....	k	n
(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
61P-W098R pin A and <input type="checkbox"/> 1 52P-C057C pin W or <input type="checkbox"/> 2 52P-U045C pin Y		
61P-W098R pin T and aircraft ground? .....	k	n
k. Do substeps below.		
(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
52J-U062 pin 97 and 52P-C057C pin s		
52J-U062 pin 107 and aircraft ground? .....	l	m



Table 1. HARM Weapon Station 2  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
(3) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between,  <div>1</div> 52J-U062 pin 83 and 52P-C057C pin W <div>2</div> 52J-U062 pin 70/83 and 52P-U045C pin Y 52J-U062 pin 69 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:  (1) Disconnect <div>1</div> 52P-C057E from no. 7 circuit breaker/relay panel assembly or <div>2</div> 52P-U045B from no. 11 relay panel assembly.  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.  (4) Does 28vdc exist between <div>1</div> 52P-C057E pin 71 or <div>2</div> 52P-U045B pin s and aircraft ground? .....	o	p
o. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open door 14R (A1-F18AC-LMM-010).  (3) Disconnect 61P-F001B from armament computer.  (4) Does continuity exist between 61P-F001B pin 122 and <div>1</div> 52P-C057E pin 71 or <div>2</div> 52P-U045B pin s? .....	l	e
p. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open door 14R (A1-F18AC-LMM-010).  (3) Disconnect 61P-F001B from armament computer.  (4) <div>1</div> Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.  (5) <div>1</div> Does continuity exist between 61P-F001B pin 27 and 52P-C057F pin 22? ...  (6) <div>2</div> Does continuity exist between 61P-F001B pin 27 and 52P-U045B pin r? ....	l     l	s     q

Table 1. HARM Weapon Station 2  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p>q. <input type="checkbox"/> 2 Do substeps below:</p> <p>(1) Disconnect 52P-U045A.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) Does 115vac exists between 52P-U045A pin S and aircraft ground? . . . . .</p>	r	t
<p>r. <input type="checkbox"/> 2 Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.</p> <p>(4) Does continuity exist between 52P-C057C pin s and 52P-U045B pin S? . . . . .</p>	l	s
<p>s. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, station 2 <math>\phi</math>C power control relay (61K-C132), and ARM STA 2 circuit breaker (61CBC058) (A1-F18AC-420-300, WP027 00). Do step ad . . . . .</p>	-	-
<p>t. <input type="checkbox"/> 2 Isolate malfunction between no. 11 relay panel assembly wiring and station 2 power control relay (61K-U122) (A1-F18AC-420-300, WP043 00). Do step ad . . . . .</p>	-	-
<p>u. Do substeps below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p>		

Table 1. HARM Weapon Station 2  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
(c) Is 1 HARM symbol on stores display for station 2? .....	y	v
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from encoder-decoder.		
(4) Does short exist between 61P-W012C pin x and aircraft ground? .....	w	x
w. Replace Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) In door 502, disconnect 61P-W112 from AIR-GND pylon disconnect.		
(2) Does short exist between 61P-W012C pin x and aircraft ground? .....	i	m
y. Memory inspect station 2 $\phi$ C power control (CORESV+4/BIT 2) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display X2XXXX? .....	z	e
z. Does 115vac exist between 61P-W098R pin A and aircraft ground? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W112 from AIR-GND pylon disconnect.		

Table 1. HARM Weapon Station 2  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
<p>(3) On HARM Jumper Cable W56228, does continuity exist between 61P-W112 pins 45/60 and 61P-W098R pin A? .....</p>	i	ab
<p>ab. Do substeps below:</p> <p>(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP03400).</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-U062 pin 97 and aircraft ground? .....</p> <p>(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-U062 pins 70/83 and aircraft ground? .....</p>	m	ac
<p>ac. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.</p>	m	ac
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
<p>(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between 52P-C057C pin 6 and 52J-U062 pins 97? .....</p>	l	s
<p>(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74.</p> <p>(a) <input type="checkbox"/> 1 Does continuity exist between 52P-C057C pin W and 52J-U062 pins 70/83? .....</p> <p>(b) <input type="checkbox"/> 2 Does continuity exist between 52P-U045C pin Y and 52P-U062 pins 70/83? .....</p>	l	s
	l	t


**Table 1. HARM Weapon Station 2  $\phi$ C Power Control Fail (Continued)**

Procedure	No	Yes
ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.		
(1) 52P-C057C		
<input type="checkbox"/> (2) 52P-C057E		
<input type="checkbox"/> (3) 52P-C057F		
<input type="checkbox"/> (4) 52P-U045A		
<input type="checkbox"/> (5) 52P-U045B		
<input type="checkbox"/> (6) 52P-U045C		
(7) 61P-W012C		
(8) 61P-W112		
(9) 61P-W098R		
(10) 61P-F001B		
(11) Doors 10L, 14R, 502, 504, 79L		
(12) Jumper wire (61P-W098R)		
(13) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 2. HARM Weapon Station 3  $\phi$ C Power Control Fail**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 2. HARM Weapon Station 3  $\phi$ C Power Control Fail (Continued)**

NOTE		
<p>Weapon Station 3 Power Control Schematic and Weapon Station 2, 3, 7, 8 AGM-88 HARM Schematic (A1-F18AC-740-500, WP028 00 and WP055 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Weapons Control Test Set AN/AWM-92  Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  HARM Jumper Cable W56228  Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  No. 7 Circuit Breaker/Relay Panel Assembly  No. 11 Relay Panel Assembly</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (svswitches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below.</p> <p> 52P-C057E</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac $\phi$ C power existing when it should be off? . . . . .	b	u
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		

**Table 2. HARM Weapon Station 3  $\phi$ C Power Control Fail (Continued)**

Procedure	No	Yes
(2) On pylon, open door 502 (A1-F18AC-LMM-010). (3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set. (4) Connect jumper wire between 61P-W098R pin R (HARM Ident) and aircraft ground. (5) Close BRU-32 FWD and AFT hooks. (6) Turn electrical power on (A1-F18AC-LMM-000). (7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. (8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display. (9) On RDDI: (a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed. (b) Press STORES pushbutton switch. (c) Is 1 HARM symbol on stores display for station 3? .....		
c. Troubleshoot Station 3 Does Not Display 1 HARM On Stores Display (WP010 24, <input type="checkbox"/> 1 Table 3 or <input type="checkbox"/> 2 Table 3A) .....	-	-
d. Memory inspect station 3 $\phi$ C power control (CORESV+4/BIT 10) by doing substeps below: (1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX4X? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-

Table 2. HARM Weapon Station 3  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
f. Does 115vac exist between 61P-W098R pin A and pin T (115vac return)? .....	h	g
g. Replace AN/AWM-92 Aircraft Weapon Control Test Set. Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W112 from AIR-GND pylon disconnect.		
(3) Does continuity exist between:		
61P-W112 pins 45/60 and 61P-W098R pin A		
61P-W112 pin 50 and 61P-W098R pin T? .....	i	j
i. Replace HARM Jumper Cable W56228 (A1-F18AC-740-300, WP037 02). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
61P-W098R pin A and 52P-C057C pin m		
61P-W098R pin T and aircraft ground? .....	k	n
(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
61P-W098R pin A and <input type="checkbox"/> 1 52P-C057C pin T or <input type="checkbox"/> 2 52P-U045C pin T		
61P-W098R pin T and aircraft ground? .....	k	n
k. Do substeps below:		
(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
52J-U063 pin 97 and 52P-C057C pin m		
52J-U063 pin 107 and aircraft ground? .....	l	m
(3) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
52J-U063 pin 83 and <input type="checkbox"/> 1 52P-C057C pin T or <input type="checkbox"/> 2 52P-U045C pin Y		
52J-U063 pin 69 and aircraft ground? .....	l	m



Table 2. HARM Weapon Station 3  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 1 52P-C057E from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045B from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s and aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) <input type="checkbox"/> 1 Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.		
(5) <input type="checkbox"/> 1 Does continuity exist between 61P-F001B pin 25 and 52P-C057F pin 13? ...	l	s
(6) <input type="checkbox"/> 2 Does continuity exist between 61P-F001B pin 25 and 52P-U045B pin KK? ..	l	q
q. <input type="checkbox"/> 2 Do substeps below:		
(1) Disconnect 52P-U045A.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		



Table 2. HARM Weapon Station 3  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from encoder-decoder.		
(4) Does short exist between 61P-W012C pin x and aircraft ground? .....	w	x
w. Replace Left Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) In door 502, disconnect 61P-W112 from AIR-GND pylon disconnect.		
(2) Does short exist between 61P-W012C pin x and aircraft ground? .....	i	m
y. Memory inspect station 3 $\phi$ C power control (CORESV+4/BIT 10) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX4X? .....	z	e
z. Does 115vac exist between 61P-W098R pin A and aircraft ground? .....	g	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W112 from AIR-GND pylon disconnect.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(3) On HARM Jumper Cable W56228, does continuity exist between 61P-W112 pins 45/60 and 61P-W098R pin A? .....	i	ab

Table 2. HARM Weapon Station 3  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p>ab. Do substeps below:</p> <p>(1) Remove left inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-U063 pin 97 and aircraft ground? ..... m ac</p> <p>(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-U063 pins 70/83 and aircraft ground? ..... m ac</p> <p>ac. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045C from no. 11 relay panel assembly.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p> <p>(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between 52P-C057C pin m and 52J-U063 pin 97? ..... l s</p> <p>(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74.</p> <p>(a) <input type="checkbox"/> 1 Does continuity exist between 52P-C057C pin T and 52J-U063 pins 70/83? ..... l s</p> <p>(b) <input type="checkbox"/> 2 Does continuity exist between 52P-U045C pin z and 52J-U063 pins 70/83? ..... l t</p> <p>ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.</p> <p>(1) 52P-C057C</p>		

Table 2. HARM Weapon Station 3  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<input type="checkbox"/> 1 (2) 52P-C057E		
<input type="checkbox"/> 1 (3) 52P-C057F		
<input type="checkbox"/> 2 (4) 52P-U045A		
<input type="checkbox"/> 2 (5) 52P-U045B		
<input type="checkbox"/> 2 (6) 52P-U045C		
(7) 61P-W012C		
(8) 61P-W112		
(9) 61P-W098R		
(10) 61P-F001B		
(11) Doors 10L, 14R, 502, 504, 79L		
(12) Jumper wire (61P-W098R)		
(13) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AGM-88 HARM WEAPON STATION POWER CONTROL, PART 4

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. HARM Weapon Station 7  $\phi$ C Power Control Fail

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 1. HARM Weapon Station 7  $\phi$ C Power Control Fail (Continued)**

NOTE		
<p>Weapon Station 7 Power Control AGM-88 HARM Avionic Interface Schematic and Weapon Station 2, 3, 7, 8 AGM-88 HARM Schematic (A1-F18AC-740-500, WP032 00 and WP055 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Weapons Control Test Set AN/AWM-92</li> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Armament Computer CP-1342/AYQ-9(V)</li> <li>HARM Jumper Cable W56228</li> <li>No. 2 Circuit Breaker Panel Assembly</li> <li><input type="checkbox"/> 1 No. 2 Relay Panel Assembly</li> <li>No. 4 Circuit Breaker Panel Assembly</li> <li><input type="checkbox"/> 2 No. 10 Relay Panel Assembly</li> <li>Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> </ul>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac $\phi$ C power existing when it should be off? . . . . .	b	v
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		



Table 1. HARM Weapon Station 7  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.		
(4) Connect jumper wire between 61P-W098R pin R (HARM Ident) and aircraft ground.		
(5) Close BRU-32 FWD and AFT hooks.		
(6) Turn electrical power on (A1-F18AC-LMM-000).		
(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(8) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(9) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 HARM symbol on stores display for station 7? .....	c	d
c. Troubleshoot Station 7 Does Not Display 1 HARM On Stores Display (WP010 27, <input type="checkbox"/> 1 Table 3 or <input type="checkbox"/> 2 Table 3A) .....	-	-
d. Memory inspect station 7 $\phi$ C power control (CORESV+2/BIT 12) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX1X? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ae .....	-	-
f. Does 115vac exist between 61P-W098R pin A and pin T (115vac return)? .....	h	g
g. Replace AN/AWM-92 Aircraft Weapon Control Test Set. Do step ae .....	-	-

Table 1. HARM Weapon Station 7  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W112 from AIR-GND pylon disconnect.		
(3) Does continuity exist between:		
61P-W112 pins 45/60 and 61P-W098R pin A		
61P-W112 pin 50 and 61P-W098R pin T? .....	i	j
i. Replace HARM Jumper Cable W56228 (A1-F18AC-740-300, WP037 02). Do step ae .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
61P-W098R pin A and 52P-F058D pin L		
61P-W098R pin T and aircraft ground? .....	k	n
(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
61P-W098R pin A and <input type="checkbox"/> 1 52P-F058D pin N or <input type="checkbox"/> 2 52P-V044C pin Z		
61P-W098R pin T and aircraft ground? .....	k	n
k. Do substeps below:		
(1) Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
52J-V067 pin 97 and 52P-F058D pin L		
52J-V067 pin 107 and aircraft ground? .....	l	m
(3) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
52J-V067 pins 70/83 and <input type="checkbox"/> 1 52P-F058D pin N or <input type="checkbox"/> 2 52P-V044C pin Z		
52J-V067 pin 69 and aircraft ground? .....	l	m

Table 1. HARM Weapon Station 7 ♂C Power Control Fail (Continued)

Procedure	No	Yes
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ae .....	-	-
m. Replace right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ae .....	-	-
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 1 52P-F058C from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044B from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s and aircraft ground? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 24 and <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 19 and <input type="checkbox"/> 1 52P-F058C pin 27 or <input type="checkbox"/> 2 52P-V044B pin KK? .....	l	q
q. <input type="checkbox"/> 1 Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) Does 115vac exist between 52P-F058D pin H and aircraft ground? .....	r	u
<input type="checkbox"/> 2 Do substeps below:		
(1) Disconnect 52P-V044A from no. 10 relay panel assembly.		

Table 1. HARM Weapon Station 7  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist between 52P-V044A pin f and aircraft ground? .....	r	t
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) On 161353 THRU 161359, disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) On 161360 AND UP, disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		
(5) On 161353 THRU 161359, does continuity exist between 52P-D026C pin w and 52P-F058D pin H? .....	l	s
(6) On 161360 AND UP, does continuity exist between 52P-D024C pin w and <input type="checkbox"/> 1 52P-F058D pin H or <input type="checkbox"/> 2 52P-V044A pin f? .....	l	t
s. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and ARM STA 7 circuit breaker (61CBD078) (A1-F18AC-420-300, WP025 00). Do step ae .....	-	-
t. <input type="checkbox"/> 1 Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 7 circuit breakers (61CBD078) (A1-F18AC-420-300, WP024 00). Do step ae .....	-	-
<input type="checkbox"/> 2 Isolate malfunction between no. 10 relay panel assembly wiring and station 7 $\phi$ C power control relay (61K-V137) (A1-F18AC-420-300, WP042 00). Do step ae .....	-	-
u. Isolate malfunction between no. 2 relay panel assembly wiring and station 7 $\phi$ C power control relay (61K-F137) (A1-F18AC-420-300, WP032 00). Do step ae .....	-	-
v. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		

**Table 1. HARM Weapon Station 7  $\phi$ C Power Control Fail (Continued)**

Procedure	No	Yes
(7) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 HARM symbol on stores display for station 7? .....	z	w
w. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from encoder-decoder.		
(4) Does short exist between 61P-W012C pin x and aircraft ground? .....	x	y
x. Replace Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ae .....	-	-
y. Do substeps below:		
(1) In door 502, disconnect 61P-W112 from AIR-GND pylon disconnect.		
(2) Does short exist between 61P-W012C pin x and aircraft ground? .....	i	m
z. Memory inspect station 7 $\phi$ C power control (CORESV+2/BIT 12) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX1X? .....	aa	e
aa. Does 115vac exist between 61P-W098R pin A and aircraft ground? .....	g	ab

Table 1. HARM Weapon Station 7  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
ab. Do substeps below: <ol style="list-style-type: none"> <li>Turn electrical power off (A1-F18AC-LMM-000).</li> <li>On pylon, open door 502 (A1-F18AC-LMM-010).</li> <li>In door 502, disconnect 61P-W112 from AIR-GND pylon disconnect.</li> </ol>		
<b>NOTE</b>  Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) On HARM Jumper Cable W56228, does continuity exist between 61P-W112 pins 45/60 and 61P-W098R pin A? .....	i	ac
ac. Do substeps below: <ol style="list-style-type: none"> <li>Remove right inboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</li> <li>Turn electrical power on (A1-F18AC-LMM-000).</li> <li>On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</li> <li>ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-V067 pin 97 and aircraft ground? .....</li> <li>ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-V067 pins 70/83 and aircraft ground? .....</li> </ol>	m	ad
ad. Do substeps below: <ol style="list-style-type: none"> <li>Turn electrical power off (A1-F18AC-LMM-000).</li> <li>Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).</li> <li>Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.</li> </ol>	m	ad
<b>NOTE</b>  Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between 52P-F058D pin L and 52J-V067 pin 97? .....	l	u
(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between <input type="checkbox"/> 1 52P-F058D pin N or <input type="checkbox"/> 2 52P-V044C pin Z and 52J-V067 pins 70/83? .....	l	u

**Table 1. HARM Weapon Station 7  $\phi$ C Power Control Fail (Continued)**

Procedure	No	Yes
ae. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.  (1) 52P-D024C <input type="checkbox"/> (2) 52P-D026C <input type="checkbox"/> (3) 52P-F058C <input type="checkbox"/> (4) 52P-F058D <input type="checkbox"/> (5) 52P-V044A <input type="checkbox"/> (6) 52P-V044B <input type="checkbox"/> (7) 52P-V044C  (8) 61P-W012C  (9) 61P-W112  (10) 61P-W098R  (11) 61P-F001B  (12) Doors 10R, 14R, 502, 504, 79R  (13) Jumper wire (61P-W098R)  (14) Aircraft Wing Pylon SUU-63( ) .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 2. HARM Weapon Station 8  $\phi$ C Power Control Fail**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 2. HARM Weapon Station 8  $\phi$ C Power Control Fail (Continued)**

NOTE		
<p>Weapon Station 8 Power Control Schematic and Weapon Station 8 AGM-88 HARM Schematic (A1-F18AC-740-500, WP033 00 and WP055 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Weapons Control Test Set AN/AWM-92  Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  HARM Jumper Cable W56228  No. 2 Circuit Breaker Panel Assembly  1 No. 2 Relay Panel Assembly  1 No. 4 Circuit Panel Assembly  2 No. 10 Relay Panel Assembly  Right Wing Inboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>Pin to pin test per procedural step.</li> <li>Shorts to ground.</li> <li>Shorts between surrounding pins on connectors.</li> <li>Shorts between shield and conductors.</li> <li>Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac $\phi$ C power existing when it should be off? . . . . .	b	v
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		



**Table 2. HARM Weapon Station 8  $\phi$ C Power Control Fail (Continued)**

Procedure	No	Yes
<p>(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.</p> <p>(4) Connect jumper wire between 61P-W098R pin R (HARM Ident) and aircraft ground.</p> <p>(5) Close BRU-32 FWD and AFT hooks.</p> <p>(6) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On left and right Digital Display Indicators IP- 1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(9) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 HARM symbol on stores display for station 8? .....</p>		
c. Troubleshoot Station 8 Does Not Display 1 HARM On Stores Display (WP010 28, <input type="checkbox"/> 1 Table 3 or <input type="checkbox"/> 2 Table 3A) .....	c	d
d. Memory inspect station 8 $\phi$ C power control <input type="checkbox"/> 1 (CORESV+6/BIT 10) or <input type="checkbox"/> 2 (CORESV+8/BIT 13) by doing substeps below:	-	-
<p>(1) Using unit address 06, memory inspect address for ref code <input type="checkbox"/> 1 CORESV+6 or <input type="checkbox"/> 2 CORESV+8 (table 2, WP010 19).</p> <p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display <input type="checkbox"/> 1 XXXX4X or <input type="checkbox"/> 2 XXXXX4? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ae .....	-	-

Table 2. HARM Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
f. Does 115vac exist between 61P-W098R pin A and pin T (115vac return)? .....	h	g
g. Replace AN/AWM-92 Aircraft Weapon Control Test Set. Do step ae .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W112 from AIR-GND pylon disconnect.		
(3) Does continuity exist between:		
61P-W112 pins 45/60 and 61P-W098R pin A		
61P-W112 pin 50 and 61P-W098R pin T? .....	i	j
i. Replace HARM Jumper Cable W56228 (A1-F18AC-740-300, WP037 02). Do step ae .....	-	-
j. Do substeps below:		
(1) Connect 61P-W112 to AIR-GND pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
61P-W098R pin A and 52P-F058D pin E		
61P-W098R pin T and aircraft ground? .....	k	n
(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between:		
61P-W098R pin A and <input type="checkbox"/> 1 52P-F058D pin M or <input type="checkbox"/> 2 52P-V044C pin Y		
61P-W098R pin T and aircraft ground? .....	k	n
k. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between:		
52J-V068 pin 97 and 52P-F058D pin E		
52J-V068 pin 107 and aircraft ground? .....	l	m

Table 2. HARM Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
(3) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between?  52J-V068 pins 70/83 and <input type="checkbox"/> 1 52P-F058D pin M or <input type="checkbox"/> 2 52P-V044C pin Y 52J-V068 pin 69 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ae .....	-	-
m. Replace right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ae .....	-	-
n. Do substeps below:  (1) Disconnect <input type="checkbox"/> 1 52P-F058C from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044B from no. 10 relay panel assembly.  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.  (4) Does 28vdc exist between <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s and aircraft ground? .....	o	p
o. Do substeps below:  (1) Turn electrical power (A1-F18AC-LMM-000).  (2) Open door 14R (A1-F18AC-LMM-010).  (3) Disconnect 61P-F001B from armament computer.  (4) Does continuity exist between 61P-F001B pin 24 and <input type="checkbox"/> 1 52P-F058C pin 38 or <input type="checkbox"/> 2 52P-V044B pin s? .....	l	e
p. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open door 14R (A1-F18AC-LMM-010).  (3) Disconnect 61P-F001B from armament computer.  (4) Does continuity exist between 61P-F001B pin 29 and <input type="checkbox"/> 1 52P-F058C pin 101 or <input type="checkbox"/> 2 52P-V044B pin r? .....	l	q
q. <input type="checkbox"/> 1 Do substeps below:  (1) Turn electrical power on (A1-F18AC-LMM-000).		

Table 2. HARM Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
(2) Does 115vac exist between 52P-F058D pin B and aircraft ground? .....	r	u
<input type="checkbox"/> 2 Do substeps below:		
(1) Disconnect 52P-V044 from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) Does 115vac exist between 52P-V044A pin S and aircraft ground? .....	r	t
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) On 161353 THRU 161359, disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) On 161360 AND UP, disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		
(5) On 161353 THRU 161359, does continuity exist between 52P-D026C pin b and 52P-F058D pin B? .....	l	s
(6) On 161360 AND UP, does continuity exist between 52P-D024C pin b and <input type="checkbox"/> 1 52P-F058D pin B or <input type="checkbox"/> 2 52P-V044A pin S? .....	l	t
s. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and ARM STA 8 circuit breaker (61CBD082) (A1-F18AC-420-300, WP025 00). Do step ae .....	-	-
t. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 8 circuit breaker (61CBD082) (A1-F18AC-420-300, WP024 00). Do step ae .....	-	-
u. <input type="checkbox"/> 1 Isolate malfunction between no. 2 relay panel assembly wiring and station 8 $\phi$ C power control relay (61K-F138) (A1-F18AC-420-300, WP032 00). Do step ae .....	-	-
<input type="checkbox"/> 2 Isolate malfunction between no. 10 relay panel assembly wiring and station 8 $\phi$ C power control relay (61K-V138) (A1-F18AC-420-300, WP042 00). Do step ad .....	-	-
v. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		

Table 2. HARM Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p>(3) Disconnect 61P-W098R (HARM Jumper Cable W56228) from test set.</p> <p>(4) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.</p> <p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 1 HARM symbol on stores display for station 8? . . . . .</p>	z	w
<p>w. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012C from encoder-decoder.</p> <p>(4) Does short exist between 61P-W012C pin x and aircraft ground? . . . . .</p>	x	y
<p>x. Replace Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ae . . . . .</p>	-	-
<p>y. Do substeps below:</p> <p>(1) In door 502, disconnect 61P-W112 from AIR-GND pylon disconnect.</p> <p>(2) Does short exist between 61P-W012C pin x and aircraft ground? . . . . .</p>	i	m
<p>z. Memory inspect station 8 <math>\phi</math>C power control <input type="checkbox"/> 1 (CORESV+6/BIT 10) or <input type="checkbox"/> 2 (CORESV+8/BIT 13) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code <input type="checkbox"/> 1 CORESV+6 or <input type="checkbox"/> 2 CORESV+8 (table 2, WP010 19).</p>		

Table 2. HARM Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display <input type="checkbox"/> 1 XXXX4X or <input type="checkbox"/> 2 XXXXX4? .....	e	f
aa. Does 115vac exist between 61P-W098R pin A and aircraft ground? .....	g	ab
ab. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W112 from AIR-GND pylon disconnect.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(3) On HARM Jumper Cable W56228, does continuity exist between 61P-W112 pins 45/60 and 61P-W098R pin A? .....	i	ac
ac. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does 115vac exist between 52J-V068 pin 97 and aircraft ground? .....	m	ad
(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does 115vac exist between 52J-V068 pins 70/83 and aircraft ground? .....	m	ad
ad. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open <input type="checkbox"/> 1 door 14R or <input type="checkbox"/> 2 door 79R (A1-F18AC-LMM-010).		

Table 2. HARM Weapon Station 8  $\phi$ C Power Control Fail (Continued)

Procedure	No	Yes
(3) Disconnect <input type="checkbox"/> 1 52P-F058D from no. 2 relay panel assembly or <input type="checkbox"/> 2 52P-V044C from no. 10 relay panel assembly.		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(4) ON 161353 THRU 161987 BEFORE F/A-18 AFC 74, does continuity exist between 52P-F058D pin E and 52J-V068 pin 97? .....	1	u
(5) ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74, does continuity exist between <input type="checkbox"/> 1 52P-F058D pin M or <input type="checkbox"/> 2 52P-V044C and 52J-V067 pins 70/83? .....	1	u
ae. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.		
(1) 52P-D024C		
<input type="checkbox"/> 1 (2) 52P-D026C		
<input type="checkbox"/> 1 (3) 52P-F058C		
<input type="checkbox"/> 1 (4) 52P-F058D		
<input type="checkbox"/> 2 (5) 52P-V044A		
<input type="checkbox"/> 2 (6) 52P-V044B		
<input type="checkbox"/> 2 (7) 52P-V044C		
(8) 61P-W012C		
(9) 61P-W112		
(10) 61P-W098R		
(11) 61P-F001B		
(12) Doors 10R, 14R, 502, 504, 79R		
(13) Jumper wire (61P-W098R)		
(14) Aircraft Wing Pylon SUU-63( ) .....	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		





## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - MULTIPLE EJECTOR RACK/BRU-41( ) RELEASE CIRCUIT TEST

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Initiated Built-In Test .....	WP009 00
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locators .....	WP007 00

## Alphabetical Index

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Release Circuit Test

Procedure	Normal Indication	Remedy for Abnormal Indication
System Required Components		
All system components installed.		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>Related Systems Required</b>  Avionics Cooling Electrical System Maintenance Status Display and Recording System Mission Computer System Multipurpose Display Group		
<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
AN/AWM-54	Aircraft Firing Circuit Test Set	
178AS320	Adapter Assembly W3	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
Component locations are shown in WP007 00. Test displays are shown in figure 1 and test equipment hookup is shown on figure 2.		
For the remainder of this test, AWM-54 refers to TS-3021/AWM-54. AWM-54 and adapter assembly W3 are part of Aircraft Firing Circuit Test Set AN/AWM-54.		
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).		
<div>WARNING</div>		
To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.		
a. Make sure electrical power is off (A1-F18AC-LMM-000).		
b. Make sure all weapons are removed from aircraft.		
c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.		

Table 1. Release Circuit Test (Continued)


Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER) BRU-41 and BRU-42 installed on aircraft.</p> <p>g. If gun is installed, make sure gun electrical signal safety switch aft of door 6, is set to safe (extended) position.</p> <p>h. If gun is installed, make sure gun holdback mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>i. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. ARMING UNIT RESISTANCE TEST.</p>		
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>Inoperable arming units may cause internal damage to Wing Pylon Encoder Decoder when power is applied to aircraft. Step 2a tests for shorted arming unit.</p>		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>a. Was arming unit resistance test done during MER/BRU-41 installation? If not, do substeps below:</p> <p>(1) Open door 502 on wing pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Y112 from 61J-W112.</p> <p>(3) Using multimeter, measure resistance between 61P-Y112, pins 6 and 48 (ground) also pins 22 and 48 (ground).</p> <p>(4) If resistance is correct, reconnect 61P-Y112 to 61J-W112.</p> <p>(5) Close door 502 on wing pylon (A1-F18AC-LMM-010). Continue with TEST EQUIPMENT HOOKUP.</p> <p>3. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove breech caps from breeches on Multiple Ejector Racks/BRU-41s.</p> <p>b. Remove AWM-54 and W1 cable from Aircraft Firing Circuit Test Set AN/AWM-54 (fig 2).</p>	<p>25 ohms or greater exist for both tests.</p>	<p>Replace Multiple Ejector Rack/BRU-41 (A1-F18AC-740-300, WP037 01).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>When a failed condition is indicated during AWM-54 self test, refer to NAVAIR 16-30AWM54-1 for troubleshooting. NAVAIR 16-30AWM54-1 is contained in Aircraft Firing Circuit Test Set AN/AWM-54.</p>		
<p>c. Connect W1P1 of W1 cable to AWM-54, W1P2 of W1 to adapter assembly W3 and do AWM-54 self test.</p> <p>4. PRELIMINARY.</p>		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>a. Close forward and aft hooks of bomb ejector racks on Multiple Ejector Rack (MER)/BRU-41.</p> <p>b. Install adapter assembly W3 in aft center breech cap.</p> <p>c. Make sure all Aircraft Guided Missile Launcher LAU-116( ) hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p> <p>d. Open door 14R (A1-F18AC-LMM-010).</p> <p>e. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switch to 06, and FUZING N switch and T switch to 0, for station under test.</p> <p>f. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.</p>	<p>SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED.</p> <p>WPN SYS FAIL indicator is black (not latched).</p>	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If knob will not rotate, replace Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p> <p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p>
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>g. Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>h. Apply electrical power (A1-F18AC-LMM-000).</p> <p>i. Connect ground intercommunications (A1-F18AC-LMM-000).</p>		
<div style="text-align: center; margin: 10px auto; width: 150px;"><b>NOTE</b></div> <p>After completion of Initiated Built-In Test (BIT), leave 1, 2 and 3 switches at ON and continue with this test.</p>		
<p>j. Do Initiated Built-In Test (WP009 00).</p>		

Table 1. Release Circuit Test (Continued)


Procedure	Normal Indication	Remedy for Abnormal Indication
<p>5. NORMAL RELEASE TEST</p> <p>a. On LDDI and RDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed</p> <p>b. On LDDI, press STORES pushbutton switch</p> <p>c. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>d. On master arm control panel assembly, press and release A/G switch</p> <p>e. On RDDI, press STORES pushbutton switch</p>	<p>Menu display appears on LDDI and RDDI.</p> <p>Stores display appears with weapon count of 6, rack carriage ◇, and store code 76 on LDDI for station under test.</p> <p>A/G indicator light comes on.</p> <p>Stores display appears with weapon count of 6, rack carriage ◇, and store code 76 for station under test.</p>	<p>Replace left or right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>On F/A-18A, do table 1 (WP010 34). On F/A-18B, do table 2 (WP010 34).</p> <p>Replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>Do steps 5f through 5i as required to complete PROG 5. If this program was previously selected it will be displayed when power is applied. If an X is displayed through PROG, the program is incomplete. If the X is removed from PROG, do step 5j.</p>		
f. On RDDI, press 76 pushbutton switch.	Selection indicated by box around 76 with X through 76. On wingform station under test, box appears around weapon type.	Enter correct store code on Armament Computer CP-1342/ AYQ-9(V).
g. On RDDI, press PROG pushbutton switch	PROG 5 appears on RDDI, X may appear through PROG.	Repeat this step until PROG 5 appears. If PROG 5 does not appear, replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
	 Box appears around UFC on RDDI.	
h. On RDDI, press UFC pushbutton switch	Electronic Equipment Control (equipment control) displays options listed below:	Do Electronic Equipment Control Lamp and Switch Test (A1-F18AC-741-200, WP004 00).
	a. QTY appears in option 1 display.	

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
i. On Electronic Equipment Control press option 1 select switch and do sub-steps below:	b. MULT appears in option 2 display.  c. INT appears in option 3 display.  Option 1 select colon (:) appears on left side of option 1 display.	Replace Electronic Equipment Control (A1-F18AC-741-300, WP006 00).
<p style="text-align: center;"><b>NOTE</b></p> <p>If an error occurs while pressing keyboard switches, press keyboard CLR switch and repeat step.</p>		
(1) Press keyboard 1 switch.	1 is displayed on equipment control scratch pad display.	Replace Electronic Equipment Control (A1-F18AC-741-300, WP006 00).
(2) Press keyboard ENT switch	1 is displayed on QTY line on RDDI.	Replace Electronic Equipment Control (A1-F18AC-741-300, WP006 00).
j. On master arm control panel assembly, set MASTER switch to ARM.	MASTER switch remains in ARM.	Replace Master Arm Control Panel Assembly (A1-F18AC-740-300, WP013 00).
k. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged.  2. ARM is displayed on RDDI.  3. X removed and RDY displayed under 76 on RDDI.	Do table 1 (WP012 00).  Do table 1 (WP010 17).  Do table 8 (WP033 00).
l. On AWM-54, set FCTN selector switch to S/V.		
<p style="text-align: center;"><b>NOTE</b></p> <p>If any step in the procedure below fails, self test AWM-54 before doing troubleshooting. Adapter must be removed from breech to do self test.</p>		
m. On AWM-54, press and hold TEST switch.		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
n. On aircraft controller grip assembly, press and hold A/G weapon release switch.	GO light on AWM-54 comes on.	Replace Multiple Ejector Rack/BRU-41 (A1-F18AC-740-300, WP037 01).
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">The weapon count number starts at 6 for station under test and will decrease each time A/G weapon release switch is pressed and released.</p>		
o. Release A/G weapon release switch.	Weapon count goes to 5 on stores display for station under test.	Do table 7 (WP033 00).
p. On AWM-54, release TEST switch.		
q. On RDDI, press LOAD pressbutton switch.	Weapon count goes to 6 on stores display under test.	Repeat this step until weapon count goes to 6 on stores display for station under test. If weapon count of 6 does not appear, replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
r. On MER, remove electrical safety pin (fig 2).		
s. On AWM-54, set FCTN selector switch to F/C.		
t. On AWM-54, press and hold TEST switch.		
u. On aircraft controller grip assembly, press and hold A/G weapon release switch.	GO light on AWM-54 comes on.	Do table 3 (WP033 00).
v. On BRU-41, open hooks of tested bomb ejector rack.		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">The weapon count number starts at 6 for station under test and will decrease each time A/G weapon release switch is pressed and released. A blank appears when the weapon count reaches zero.</p>		
w. Release A/G weapon release switch.	Weapon count number goes to 5 on stores display for station under test.	Do table 7 (WP033 00).
x. On AWM-54, release TEST switch.		



Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p align="center">BRU-41 release sequence, aft center (station 1), forward center (station 2), aft left (station 3), forward left (station 4), aft right (station 5) and forward right (station 6).</p>		
y. Remove adapter assembly W3 from breech cap and install in next breech cap in release sequence.		
z. Repeat steps 5r through 5z on remaining breech caps. Leave AWM-54 installed on BRI-41 station 6.	Same as steps 5r through 5y.	Same as steps 5r through 5y.
<b>6. STORES JETTISON TEST</b>		
a. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.		
b. Close forward and aft hooks on BRU-41 station 6.		
c. On master arm control panel assembly, press and release A/G switch On F/A-18B do table 2 (WP010 34).	A/G indicator light goes off.	On F/A-18A, do table 1 (WP010 34). On F/A-18B, do table 2 (WP010 34).
d. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
e. On master arm control panel assembly, press and release A/G switch.	A/G indicator light comes on.	On F/A-18A, do table 1 (WP010 34). On F/A-18B, do table 2 (WP010 34).
f. On LH vertical console panel assembly, set SELECT JETT switch to STORES.		
g. On flaps, landing gear and stores indicator panel, press and release LI, RI, LO, or RO JETT STATION SELECT switch for station under test.	Light comes on for selected station.	Do table 1 (WP013 00).
h. On AWM-54, press and hold TEST switch.		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
i. On LH vertical console panel assembly, press and release SELECT JETT switch JETT pushbutton.	GO light on AWM-54 comes on.	Do table 3 (WP033 00).
j. On AWM-54, release TEST switch.	GO light on AWM-54 goes off.	Replace AWM-54.
k. On AWM-54, set FCTN switch to S/V.		
l. On AWM-54, press and release TEST switch.	GO light on AWM-54 comes on and remains on until TEST switch is released.	Do table 5 (WP033 00).
m. On flaps, landing gear and stores indicator panel, press and release LI, RI, LO, or RO JETT STATION SELECT switch for station under test.	Light goes off for selected station.	Do table 1 (WP013 00).
n. On LH vertical console panel assembly, set SELECT JETT switch to SAFE.		
o. On master arm control panel assembly, press and release A/G switch.	A/G indicator light goes off.	On F/A-18A, do table 1 (WP010 34). On F/A-18B, do table 2 (WP010 34).
p. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.		
q. On GND PWR control panel assembly, set 3 switch to AUTO.		
r. On master arm control panel assembly, set MASTER switch to SAFE.	1. SAFE displayed on RDDI.	Do table 2 (WP010 17).
	2. ARMAMENT OVERRIDE switch disengages.	Do table 3 (WP010 17).

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">After 3 switch is set to B ON, Stores Management System requires up to 240 seconds to complete initial BIT.</p>		
<p>s. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.</p> <p>t. Repeat steps 4a, 4b, 4e, 5a through 5f, 5j through 5z and 6 for remaining stations with BRU-41 installed or do SHUTDOWN.</p> <p>7. SHUTDOWN.</p>		<p>If 3 switch does not remain on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).</p>
<p>a. On master arm control panel assembly, press and release A/G switch.</p>	A/G indicator light goes off.	<p>On F/A-18A, do table 1 (WP010 32).</p> <p>On F/A-18B, do table 2 (WP010 32).</p>
<p>b. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.</p>		
<p>c. On master arm control panel assembly, set MASTER switch to SAFE.</p>	<p>1. SAFE displayed on RDDI.</p> <p>2. ARMAMENT OVERRIDE switch disengages.</p>	<p>Do table 2 (WP010 17).</p> <p>Do table 3 (WP010 17).</p>
<p>d. On LDDI and RDDI, set power switch to OFF.</p>		
<p>e. On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.</p>		
<p>f. Remove electrical power (A1-F18AC-LMM-000).</p>		
<p>g. Disconnect proximity switch control (A1-F18AC-LMM-000).</p>		
<p>h. Disconnect ground intercommunications (A1-F18AC-LMM-000).</p>		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>i. Close door 14R (A1-F18AC-LMM-010).</p> <p>j. Remove adapter assembly W3 from breech cap.</p> <p>k. Disconnect W1 cable from adapter assembly W3 and AWM-54 and stow items.</p> <p>l. Install breech caps on breeches of Multiple Ejector Racks.</p> <p>m. Install electrical safety pin in Multiple Ejector Racks.</p>		

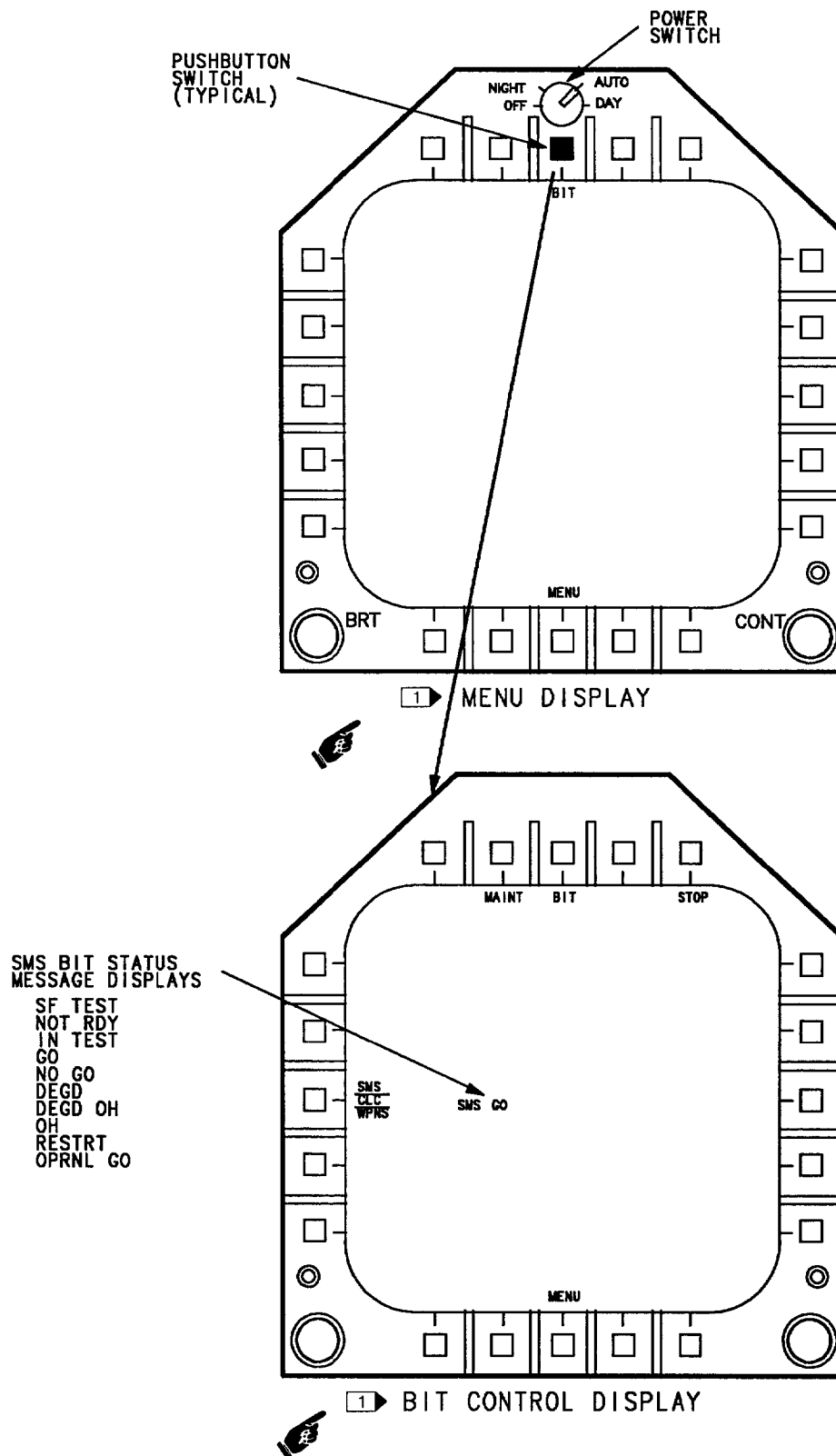


Figure 1. Test Displays (Sheet 1)

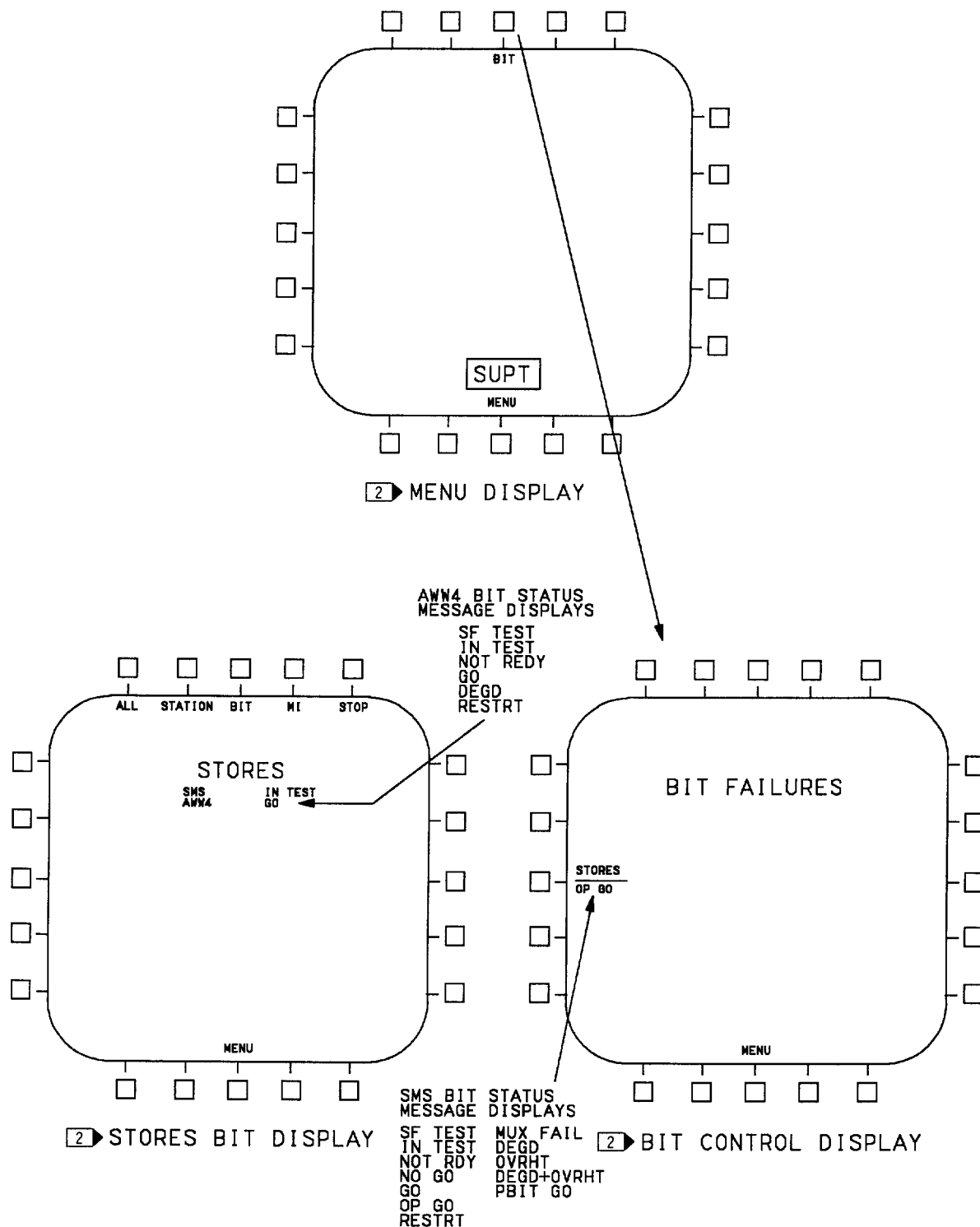


Figure 1. Test Displays (Sheet 2)

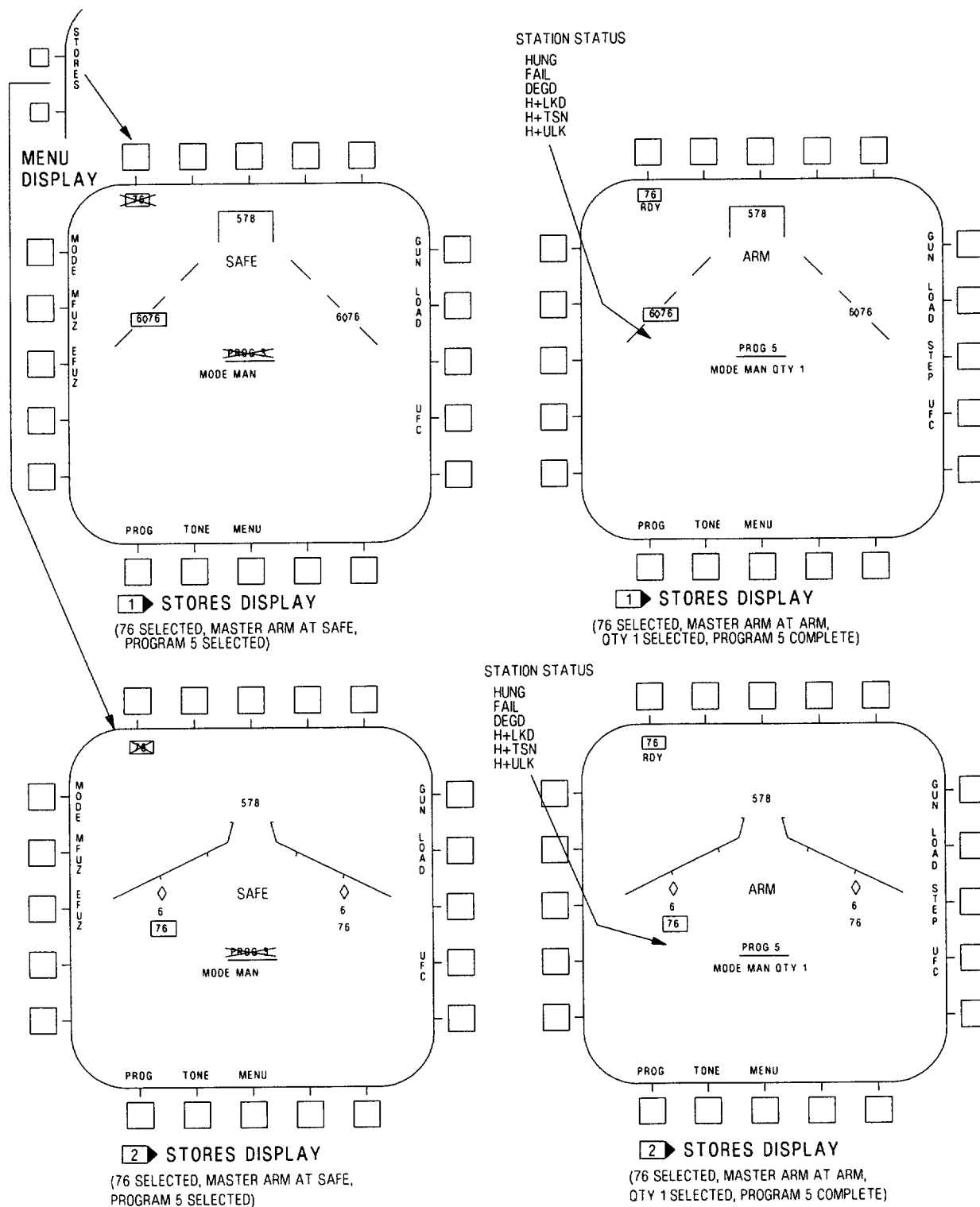
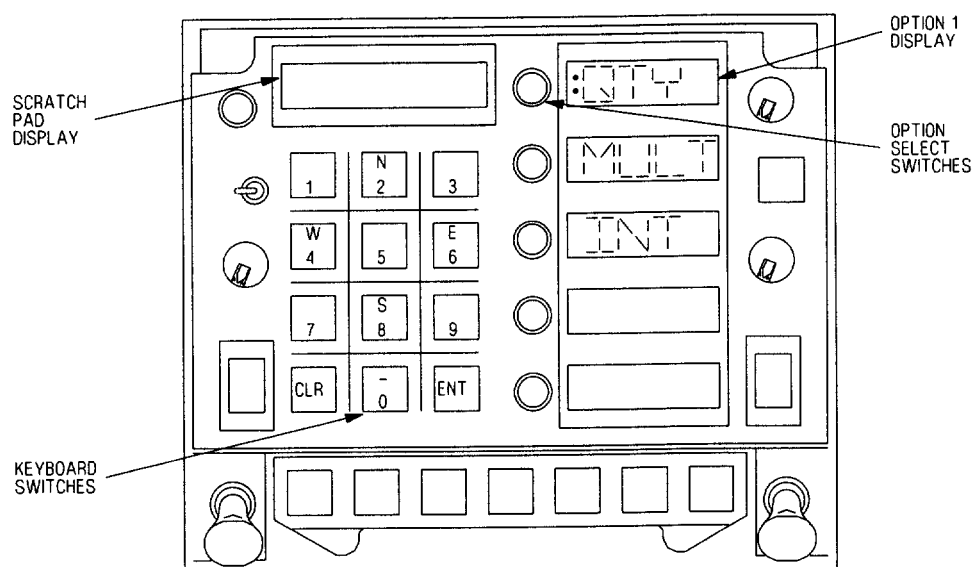


Figure 1. Test Displays (Sheet 3)



## ELECTRONIC EQUIPMENT CONTROL

## LEGEND

- 1 WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A AND UP (A1-F18AC-SCM-000).
- 2 WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP (A1-F18AC-SCM-000).

Figure 1. Test Displays (Sheet 4)



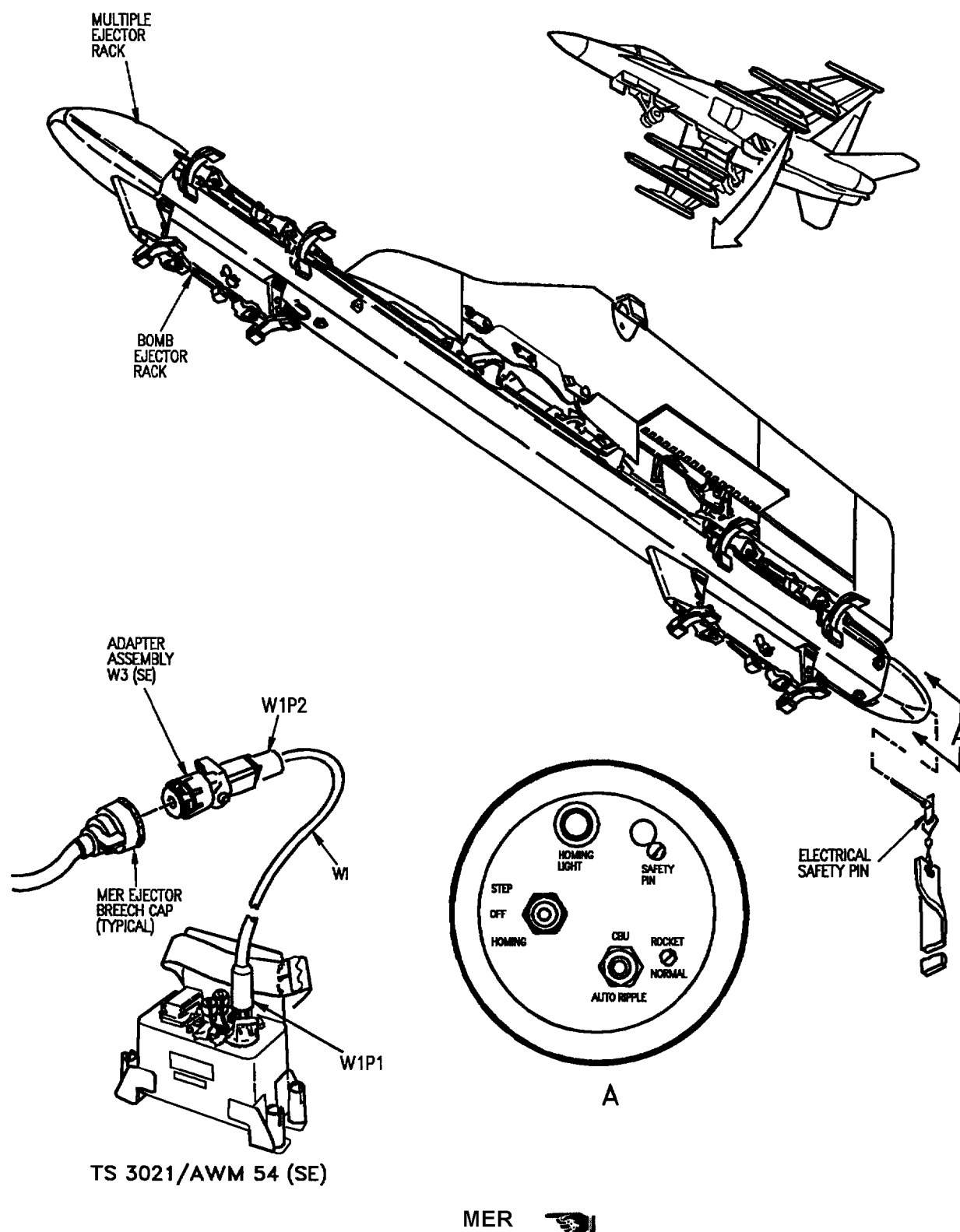
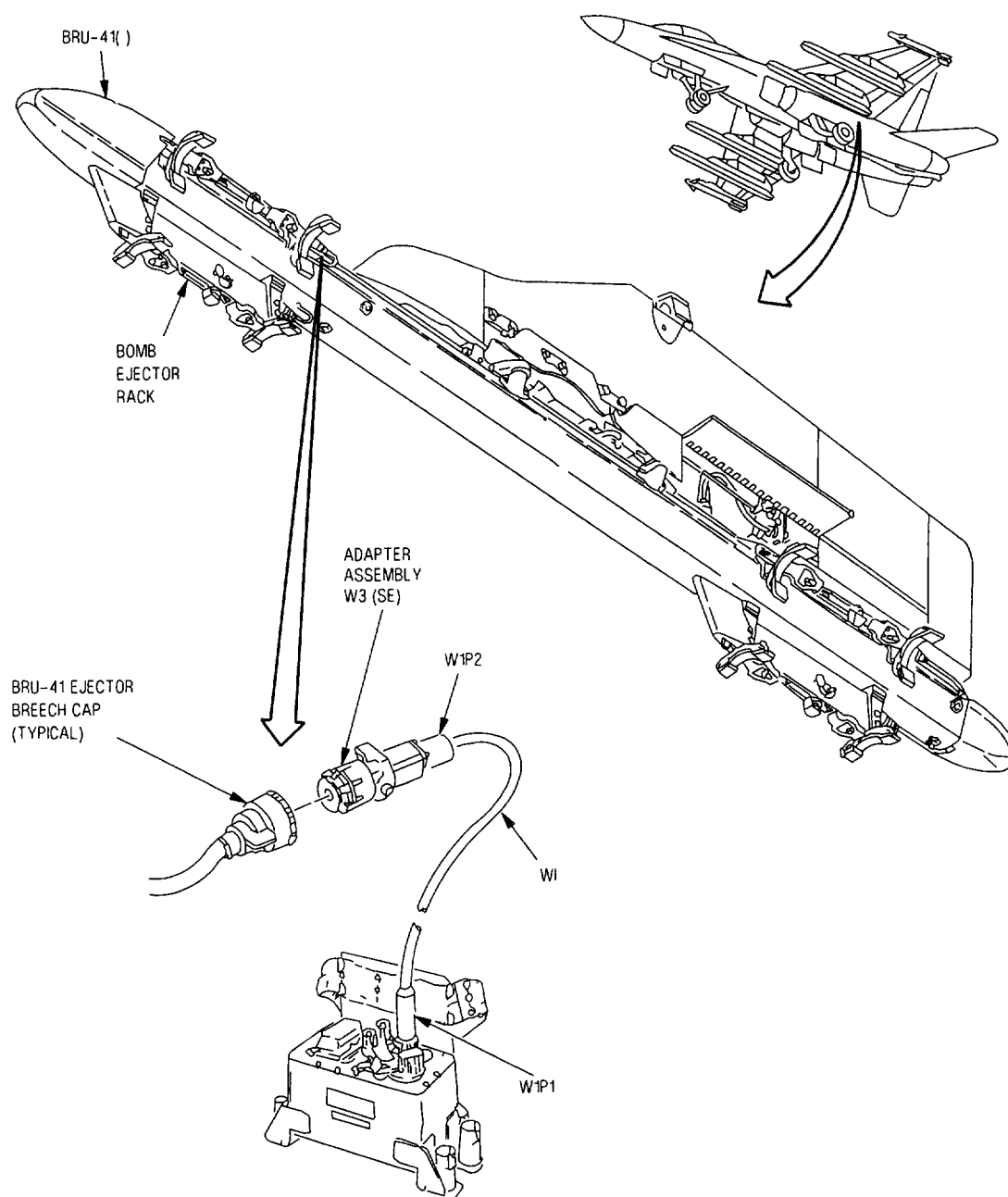


Figure 2. Test Equipment Hookup (Sheet 1)

**BRU-41****Figure 2. Test Equipment Hookup (Sheet 2)**

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - MULTIPLE EJECTOR RACK/BRU-41( ) RELEASE CIRCUIT TEST

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. MER Home Light Does Not Come On

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 1. MER Home Light Does Not Come On (Continued)**


NOTE		
<p>Applicable Weapon Station 2, 3, 5, 7 or 8 Bomb Schematic (A1-F18AC-740-500, WP060 00 or WP061 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Connector Plate Assembly</li> <li>MER Jumper Cable W56234</li> <li>Multiple Ejector Rack (MER)</li> <li>No. 4 Circuit Breaker Panel Assembly</li> <li>No. 7 Circuit Breaker/Relay Panel Assembly</li> <li>Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</li> <li>Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> </ul>		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div> <p>a. Do substeps listed below:</p>		
<div style="text-align: center;"> <p><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p> </div> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 510 on centerline pylon (A1-F18AC-LMM-010).</li> <li>(3) Open door 502 on wing pylon (A1-F18AC-LMM-010).</li> </ol>		

Table 1. MER Home Light Does Not Come On (Continued)

Procedure	No	Yes
(4) Disconnect 61P-Y247A from Multiple Ejector Rack. (5) Connect a ground at 61P-Y247A pin 7. (6) Open door 14R (A1-F18AC-LMM-010). (7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 06.		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(8) Connect proximity switch control (A1-F18AC-LMM-000). (9) Turn on electrical power (A1-F18AC-LMM-000). (10) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup. (11) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UNLOCK switch to UP. (12) On master arm control panel assembly, press and release A/G switch.		
(13) On Aircraft Wing Pylon SUU-63( ) that failed, does 28vdc exist at 61P-Y247A pin 4? .....	b	j
(14) On Aircraft Fuselage Centerline Pylon SUU-62( ), does 28vdc exist at 61P-Y247A pin 4? .....	k	j
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000). (2) Open door 10L or 10R (A1-F18AC-LMM-010). (3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly for right wing pylons or disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly for left wing pylons. (4) Does continuity exist from:		

Table 1. MER Home Light Does Not Come On (Continued)

Procedure	No	Yes
On 161353 THRU 161359, station 7: 61P-Y247A pin 4 to 52P-D026C pin g? .....	d	c
On 161360 AND UP, station 7: 61P-Y247A pin 4 to 52P-D026C pin u? .....	d	c
On 161353 THRU 161359, station 8: 61P-Y247A pin 4 to 52P-D026C pin h? .....	d	c
On 161360 AND UP, station 8: 61P-Y247A pin 4 to 52P-D026C pin t station 2: 61P-Y247A pin 4 to 52P-C057C pin r station 3: 61P-Y247A pin 4 to 52P-C057C pin k? .....	d	c
c. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD075 or 61CBD079 (A1-F18AC-420-300, WP025 00) or no. 7 circuit breaker/relay panel assembly wiring and 61CBC059 or 61CBC055 (A1-F18AC-420-300, WP027 00) and do step p. ....	-	-
d. Do substeps listed below:		
(1) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Y112 from 61J-W112.		
(3) Does continuity exist from:		
61P-Y112 pin 48 to 61P-Y247A pin 7 61P-Y112 pin 1 to 61P-Y247A pin 4? .....	e	f
e. Replace MER Jumper Cable W56234 (A1-F18AC-740-300, WP037 01) and do step p .....	-	-
f. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist from:		
On 161353 THRU 161359, station 7: 52J-V067 pin 94 to 52P-D026C pin g? .....	g	h
On 161360 AND UP, station 7: 52J-V067 pin 94 to 52P-D026C pin u? .....	g	h
On 161353 THRU 161359, station 8: 52J-V068 pin 94 to 52P-D026C pin h? .....	g	h
On 161360 AND UP, station 8: 52J-V068 pin 94 to 52P-D026C pin t station 2: 52J-U062 pin 94 to 52P-C057C pin r station 3: 52J-U063 pin 94 to 52P-C057C pin k? .....	g	h

Table 1. MER Home Light Does Not Come On (Continued)

Procedure	No	Yes
g. Isolate defective aircraft wiring (A1-F18A( )WDM-000) and do step p .....	-	-
h. Does continuity exist from:		
station 7: 52J-V067 pin 31 and aircraft ground		
station 8: 52J-V068 pin 31 and aircraft ground		
station 2: 52J-U062 pin 31 and aircraft ground		
station 3: 52J-U063 pin 31 and aircraft ground? .....	g	i
i. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step p .....	-	-
j. Replace Multiple Ejector Rack (A1-F18AC-740-300, WP037 01) and do step p .....	-	-
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) Does continuity exist from:		
On 161353 THRU 161359, 52P-D026C pin S to 61P-Y247A pin 4		
On 161360 AND UP, 52P-D026C pin D to 61P-Y247A pin 4? .....	l	n
l. Do substeps listed below:		
(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Y112 from 52J-Z065 on connector plate assembly.		
(3) Does continuity exist from:		
61P-Y247A pin 7 to 61P-Y112 pin 48		
61P-Y247A pin 4 to 61P-Y112 pin 1? .....	e	m
m. Do substeps listed below:		
(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(2) Disconnect 52P-R065 from 52J-Z065 on connector plate assembly.		
(3) Does continuity exist from:		
Aircraft ground to 52P-R065 pin 48		
On 161353 THRU 161359, 52P-D026C pin S to 52P-R065 pin 1		
On 161360 AND UP, 52P-D026C pin D to 52P-R065 pin 1? .....	g	o

**Table 1. MER Home Light Does Not Come On (Continued)**

Procedure	No	Yes
n. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD067 or 61CBD071 (A1-F18AC-420-300, WP025 00) and do step p .....	-	-
o. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step p .....	-	-
p. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-Y247A		
(2) 61P-Y112		
(3) 52P-R065		
(4) 52P-D026C		
(5) 52P-C057C		
(6) Door 10L/R		
(7) Door 502		
(8) Door 510		
(9) Door 14R		
(10) Connector plate assembly		
(11) Aircraft Wing Pylon SUU-63( )		
(12) Disconnect proximity switch control .....	-	-

**Table 2. GO Light On Test Set Does Not Come On, MER Ejector Rack Release – F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter



**Table 2. GO Light On Test Set Does Not Come On, MER Ejector Rack Release – F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

<p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>Applicable Weapon Station 2, 3, 7, 8 or 5 Bomb Schematic (A1-F18AC-740-500, WP060 00 or WP061 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Aircraft Wiring</p> <p>Connector Plate Assembly</p> <p>MER Jumper Cable W56234</p> <p>Multiple Ejector Rack</p> <p>Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p> <p>Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
<p align="center"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p>		
<p align="center"><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

**Table 2. GO Light On Test Set Does Not Come On, MER Ejector Rack Release – F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(2) Open door 510 on centerline pylon (A1-F18AC-LMM-010). (3) Open door 502 on wing pylon (A1-F18AC-LMM-010). (4) Disconnect 61P-Y247A from Multiple Ejector Rack. (5) Connect a ground at 61P-Y247A pin 7. (6) Open door 14R (A1-F18AC-LMM-010). (7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 06.		
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: fit-content;"> <b>WARNING</b> </div> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(8) Connect proximity switch control (A1-F18AC-LMM-000). (9) Turn on electrical power (A1-F18AC-LMM-000). (10) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup. (11) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK to UP. (12) On master arm control panel assembly, press and release A/G switch. (13) Do the release circuit test steps 5g thru 5j to select display and complete program for release, Table 1 (WP032 01). (14) On master arm control panel assembly, set MASTER switch to ARM. (15) In nose wheelwell on left side, set ARMAMENT OVERRIDE switch to OVERRIDE. (16) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(a) Connect multimeter between 61P-Y247A pin 8 and ground.		
(b) On aircraft controller grip assembly, press and release A/G weapon release switch, did 28vdc exist at 61P-Y247A pin 8? .....	b	i

**Table 2. GO Light On Test Set Does Not Come On, MER Ejector Rack Release – F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>(17) On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:</p> <p>(a) Connect multimeter between 61P-Y247A pin 8 and ground.</p> <p>(b) On controller grip assembly, press and release A/G weapon release switch, did 28vdc ex st at 61P-Y247A pin 8? .....</p> <p>b. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012C from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.</p> <p>(4) Does continuity exist from:</p> <p>61P-W012C pin AA to 61P-Y247A pin 7</p> <p>61P-W012C pin c to 61P-Y247A pin 5</p> <p>61P-W012C pin B to 61P-Y247A pin 8? .....</p> <p>c. Do substeps listed below:</p> <p>(1) Disconnect 61P-Y112 from 61J-W112.</p> <p>(2) Does continuity exist from:</p> <p>61P-Y247A pin 7 to 61P-Y112 pin 48</p> <p>61P-Y247A pin 7 to 61P-Y112 pin 21</p> <p>61P-Y247A pin 5 to 61P-Y112 pin 56</p> <p>61P-Y247A pin 8 to 61P-Y112 pin 93? .....</p> <p>d. Replace MER Jumper Cable W56234 (A1-F18AC-740-300, WP037 01) and do step q .....</p> <p>e. Does continuity exist from:</p> <p>61J-W112 pin 48 to ground</p> <p>61J-W112 pin 21 to 61P-W012C pin AA</p> <p>61J-W112 pin 56 to 61P-W012C pin c</p> <p>61J-W112 pin 93 to 61P-W012C pin B? .....</p> <p>f. Do substeps listed below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p>	<p>k</p> <p>c</p> <p>d</p> <p>-</p> <p>f</p>	<p>i</p> <p>j</p> <p>e</p> <p>-</p> <p>j</p>

**Table 2. GO Light On Test Set Does Not Come On, MER Ejector Rack Release – F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(2) Does continuity exist from:  right inboard 52J-V067 pin 31 to aircraft ground right outboard 52J-V068 pin 31 to aircraft ground left outboard 52J-U062 pin 31 to aircraft ground left inboard 52J-U063 pin 31 to aircraft ground? .....	h	g
g. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step q ..	-	-
h. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step q .....	-	-
i. Replace Multiple Ejector Rack (A1-F18AC-740-300, WP037 01) and do step q .....	-	-
j. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step q .....	-	-
k. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Disconnect 61P-R016A from Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).  (3) Does continuity exist from:  61P-R016A pin 23 to 61P-Y247A pin 5 61P-R016A pin 71 to 61P-Y247A pin 8 Aircraft ground to 61P-Y247A pin 7? .....	l	n
l. Do substeps listed below:  (1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).  (2) Disconnect 61P-Y112 from 52J-Z065 on connector plate assembly.  (3) Does continuity exist from:  61P-Y247A pin 7 to 61P-Y112 pin 48 61P-Y247A pin 5 to 61P-Y112 pin 56 61P-Y247A pin 8 to 61P-Y112 pin 93? .....	d	m
m. Does continuity exist from:  61P-R016A pin 71 to 52J-Z065 pin 93 61P-R016A pin 23 to 52J-Z065 pin 56? .....	o	i
n. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step q .....	-	-
o. Do substeps listed below:		

**Table 2. GO Light On Test Set Does Not Come On, MER Ejector Rack Release – F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(2) Disconnect 52P-R065 from 52J-Z065 on connector plate assembly.		
(3) Does continuity exist from:		
61P-R016A pin 71 to 52P-R065 pin 93		
61P-R016A pin 23 to 52P-R065 pin 56		
Aircraft ground to 52P-R065 pin 48? .....	h	p
p. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step q .....	-	-
q. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-Y247A		
(2) 61P-Y112		
(3) 61P-R016A		
(4) 61P-W012C		
(5) 52P-R065		
(6) Door 14R		
(7) Door 502 and 504		
(8) Door 510		
(9) Connector plate assembly		
(10) Aircraft Wing Pylon SUU-63( )		
(11) Disconnect proximity switch control .....	-	-

**Table 3. GO Light On Test Set Does Not Come On, BRU-41 Ejector Rack Release – F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

**Table 3. GO Light On Test Set Does Not Come On, BRU-41 Ejector Rack Release – F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

<p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>Applicable Weapon Station 2, 3, 7, 8 Bomb Schematic (A1-F18AC-740-500, WP060 00) and Bomb Racks Schematic (A1-F18AC-740-500, WP062 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Aircraft Wiring</p> <p>BRU-41 Pylon Harness 1453AS395</p> <p>BRU-41( )</p> <p>Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).</li> <li>(3) Disconnect P1 from BRU-41( ).</li> <li>(4) Connect a ground at P1 pin h.</li> <li>(5) Open door 14R (A1-F18AC-LMM-010).</li> <li>(6) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 06.</li> </ol>		

**Table 3. GO Light On Test Set Does Not Come On, BRU-41 Ejector Rack Release – F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**


Procedure	No	Yes
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(7) Connect proximity switch control (A1-F18AC-LMM-000).		
(8) Turn on electrical power (A1-F18AC-LMM-000).		
(9) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(10) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK to UP.		
(11) On master arm control panel assembly, press and release A/G switch.		
(12) Do the release circuit test steps 6f through 6k to select display and complete program for release, table 1 (WP032 01).		
(13) On master arm control panel assembly, set MASTER switch to ARM.		
(14) In nose wheelwell on left side, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(15) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(a) Connect multimeter between P1 pin K and ground.		
(b) On aircraft controller grip assembly, press and release A/G weapon release switch, did 28vdc exist at P1 pin K? .....	b	h
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.		
(4) Does continuity exist from:		
61P-W012C pin AA to P1 pin h		
61P-W012C pin d to P1 pin E		
61P-W012C pin B to P1 pin K? .....	c	i

**Table 3. GO Light On Test Set Does Not Come On, BRU-41 Ejector Rack Release – F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
c. Do substeps listed below:		
(1) Disconnect P2 from 61J-W112.		
(2) Does continuity exist from:		
P1 pin P to P2 pin 48		
P1 pin D to P2 pin 48		
P1 pin h to P2 pin 21		
P1 pin E to P2 pin 56		
P1 pin K to P2 pin 93? .....	d	e
d. Replace BRU-41 jumper cable 1453AS395 (A1-F18AC-740-300, WP037 01) and do step j .....	-	-
e. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist from:		
station 2: 52J-U062 pin 31 to aircraft ground		
station 3: 52J-U063 pin 31 to aircraft ground		
station 7: 52J-V067 pin 31 to aircraft ground		
station 8: 52J-V068 pin 31 to aircraft ground? .....	g	f
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step j .....	-	-
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step j .....	-	-
h. Replace BRU-41( ) (A1-F18AC-740-300, WP037 01) and do step j .....	-	-
i. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step j .....	-	-
j. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) Aircraft Wing Pylon SUU-63( )		
(3) BRU-41( ) Pylon Harness (Connectors P1 and P2)		
(4) Disconnect Proximity Switch Control		
(5) Doors 14R, 502 and 504		



**Table 4. GO Light On Test Set Does Not Come On, S/V Test MER – F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Applicable Weapon Station 2, 3, 7, 8 or 5 Bomb Schematic (A1-F18AC-740-500, WP060 00 or WP061 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Connector Plate Assembly MER Jumper Cable W56234 Multiple Ejector Rack Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 4. GO Light On Test Set Does Not Come On, S/V Test MER –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 510 on centerline pylon (A1-F18AC-LMM-010).</li> <li>(3) Open door 502 on wing pylon (A1-F18AC-LMM-010).</li> <li>(4) Disconnect 61P-Y247A from Multiple Ejector Rack.</li> <li>(5) Connect a ground at 61P-Y247A pin 7.</li> <li>(6) Open door 14R (A1-F18AC-LMM-010).</li> <li>(7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 06 and FUZING switches to 0.</li> </ol>		
<p style="text-align: center;"><b>WARNING</b></p> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<ol style="list-style-type: none"> <li>(8) Connect proximity switch control (A1-F18AC-LMM-000).</li> <li>(9) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(10) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</li> <li>(11) On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</li> <li>(12) On master arm control panel assembly, press and release A/G switch.</li> <li>(13) Do the release circuit test steps 5g thru 5j to select display and complete program for release, table 1 (WP032 01).</li> </ol>		

**Table 4. GO Light On Test Set Does Not Come On, S/V Test MER –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(14) On master arm control panel assembly, set MASTER switch to ARM.		
(15) In nose wheelwell on left side, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(16) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(a) Connect multimeter between 61P-Y247A pin 8 and ground.		
(b) On aircraft controller grip assembly, press and release A/G weapon release switch.		
(c) Does voltage exist at 61P-Y247A pin 8? .....	b	c
(17) On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:		
(a) Connect multimeter between 61P-Y247A pin 8 and ground.		
(b) On controller grip assembly, press and release A/G weapon release switch.		
(c) Does voltage exist at 61P-Y247A pin 8? .....	b	h
b. Replace Multiple Ejector Rack (A1-F18AC-740-300, WP037 01) and do step n .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-Y112 from 61J-W112 on pylon stores electrical disconnect panel.		
(3) Connect a ground at 61J-W112 pins 21 and 48.		
(4) Do the release circuit test steps to complete a release, table 1 (WP032 01).		
(5) Connect a multimeter between 61J-W112 pin 93 and ground.		
(6) Does voltage exist at 61J-W112 pin 93? .....	d	e
d. Replace MER Jumper Cable W56234 (A1-F18AC-740-300, WP037 01) and do step n .....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing pylon that failed.		
(4) Connect a ground at 61P-W012C pin AA.		

**Table 4. GO Light On Test Set Does Not Come On, S/V Test MER –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(5) Do the release circuit test steps to complete a release, table 1 (WP032 01).		
(6) Connect a multimeter between 61P-W012C pin B and ground.		
(7) Does voltage exist at 61P-W012C pin B? .....	f	g
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step n .....	-	-
g. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step n .....	-	-
h. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-Y112 from 52J-Z065.		
(4) Connect a ground at 52J-Z065 pin 21.		
(5) Do the release circuit test steps to complete a release, table 1 (WP032 01).		
(6) Connect a multimeter between 52J-Z065 pin 93 and ground.		
(7) Does voltage exist at 52J-Z065 pin 93? .....	d	i
i. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(3) Connect a ground at 52P-R065 pin 21.		
(4) Do the release circuit test steps to complete a release, table 1 (WP032 01).		
(5) Connect a multimeter between 52P-R065 pin 93 and ground.		
(6) Does voltage exist at 52P-R065 pin 93? .....	j	k
j. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step n .....	-	-
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-R016A from right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		

**Table 4. GO Light On Test Set Does Not Come On, S/V Test MER –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(3) Connect a ground at 61P-R016A pin 12.		
(4) Do the release circuit test steps to complete a release, table 1 (WP032 01).		
(5) Connect a multimeter between 61P-R016A pin 71 and ground.		
(6) Does voltage exist at 61P-R016A pin 71? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step n .....	-	-
m. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step n .....	-	-
n. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-Y247A		
(2) 61P-Y112		
(3) 61P-W012C		
(4) 61P-R016A		
(5) 52P-R065		
(6) Door 14R		
(7) Door 502 and 504		
(8) Door 510		
(9) Connector plate assembly		
(10) Disconnect proximity switch control .....	-	-

**Table 5. GO Light On Test Set Does Not Come On, S/V Test BRU-41( ) –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 5. GO Light On Test Set Does Not Come On, S/V Test BRU-41( ) –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

NOTE		
<p>Weapon Station 2, 3, 7, 8 Bomb Schematic (A1-F18AC-740-500, WP060 00) and Bomb Racks Schematic (A1-F18AC-740-500, WP062 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Bomb Ejector Rack BRU-41( ) BRU-41A Pylon Harness 1453AS395 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
<p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).</li> <li>(3) Disconnect P1 from BRU-41( ).</li> <li>(4) Connect a ground on pin h of P1 of BRU-41A Pylon Harness.</li> <li>(5) Open door 14R (A1-F18AC-LMM-010).</li> <li>(6) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 06 and FUZING switches to 0.</li> </ol>		
<p style="text-align: center;"><b>WARNING</b></p> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>(7) Connect proximity switch control (A1-F18AC-LMM-000).</p>		

**Table 5. GO Light On Test Set Does Not Come On, S/V Test BRU-41( ) –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p>(8) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(9) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(10) On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(11) On master arm control panel assembly, press and release A/G switch.</p> <p>(12) Do the release circuit test steps 5g thru 5j to select display and complete program for release, table 1 (WP032 01).</p> <p>(13) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(14) In nose wheelwell on left side, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(15) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:</p> <p style="padding-left: 40px;">(a) Connect multimeter between P1 pin K and aircraft ground on BRU-41A jumper bundle.</p> <p style="padding-left: 40px;">(b) On aircraft controller grip assembly, press and release A/G weapon release switch.</p> <p style="padding-left: 40px;">(c) Connect multimeter between P1 pin J and aircraft ground.</p> <p style="padding-left: 40px;">(d) Does voltage exist:</p> <p style="padding-left: 80px;">P1 pin J</p> <p style="padding-left: 80px;">P1 pin K? .....</p>		
b. Replace BRU-41( ) (A1-F18AC-740-300, WP037 01) and do step h .....	-	-
c. Do substeps listed below:		
<p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect P-2 from 61J-W112 on pylon stores electrical disconnect panel.</p> <p>(3) Connect a ground at 61J-W112 pins 21.</p> <p>(4) Do the release circuit test steps to complete a release, table 1 (WP032 01).</p> <p>(5) Connect a multimeter between 61J-W112 pin 93 and ground.</p> <p>(6) Does voltage exist at 61J-W 112 pin 93? .....</p>	d	e

**Table 5. GO Light On Test Set Does Not Come On, S/V Test BRU-41( ) –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
d. Replace BRU-41A Pylon Harness 1453AS395 (A1-F18AC-740-300, WP037 01) and do step h.....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).		
(3) For wing pylon that failed, disconnect 61P-W012C from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing pylon that failed.		
(4) Does continuity exist from:		
61P-W012C pin B to 61J-W 112 pin 93		
61P-W012C pin AA to 61J-WI 12 pin 21? .....	f	g
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step h.....	-	-
g. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step h.....	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-Y112		
(2) 61P-W012C		
(3) Door 14R, 502 and 504		
(4) BRU-41A Pylon Harness (P1 and P2)		
(5) Disconnect proximity switch control .....	-	-

**Table 6. MER Weapon Count Does Not Decrease –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	



**Table 6. MER Weapon Count Does Not Decrease –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

NOTE		
<p>Applicable Weapon Station 2, 3, 7, 8 or 5 Bomb Schematic (A1-F18AC-740-500 WP060 00 or WP061 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Aircraft Wiring</p> <p>Connector Plate Assembly</p> <p>MER Jumper Cable W56234</p> <p>Multiple Ejector Rack (MER)</p> <p>Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p> <p>Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
<p align="center"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p>		
<p align="center"><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(3) Open doors 502 and 504 on wing pylon (A1-F18AC-LMM-010).		
(4) Disconnect 61P-Y247A from multiple ejector rack.		

**Table 6. MER Weapon Count Does Not Decrease –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(5) Disconnect 61P-W012C from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.		
(6) Disconnect 61P-R016A from right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) for centerline pylon.		
(7) On Aircraft Wing Pylon SUU-63( ) that failed, does ground exist at 61P-W012C pin c or 61P-Y247A pin 5? .....	b	c
(8) On Aircraft Fuselage Centerline Pylon SW-62( ), does ground exist at 61P-Y247A pin 5 or 61P-R016A pin 23? .....	b	h
b. Replace Multiple Ejector Rack (A1-F18AC-740-300, WP037 01) and do step n .....	-	-
c. Do substeps listed below:		
(1) Disconnect 61P-Y112 from 61J-W112.		
(2) Does continuity exist from:		
aircraft ground to 61P-Y247A pin 5		
aircraft ground to 61P-Y112 pin 56? .....	d	e
d. Does continuity exist from:		
aircraft ground to 61J-W112 pin 56		
aircraft ground to 61P-W012C pin c? .....	f	g
e. Replace MER Jumper Cable W56234 (A1-F18AC-740-300, WP037 01) and do step n .....	-	-
f. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step n .....	-	-
g. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step n .....	-	-
h. Do substeps listed below:		
(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Y112 from 52J-Z065 on connector plate assembly.		
(3) Does continuity exist from:		
aircraft ground to 61P-Y247A pin 5		
aircraft ground to 61P-Y112 pin 56? .....	i	e

**Table 6. MER Weapon Count Does Not Decrease –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
i. Does continuity exist from:  aircraft ground to 61P-R016A pin 23 aircraft ground to 52J-Z065 pin 56? .....	i	k
j. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step n .....	-	-
k. Do substeps listed below:  (1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00). (2) Disconnect 52P-R065 from 52J-Z065 on connector plate assembly. (3) Does continuity exist from aircraft ground to 52P-R065 pin 56? .....	l	m
l. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step n .....	-	-
m. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step n .....	-	-
n. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:  (1) 61P-Y247A (2) 61P-Y112 (3) 61P-R016A (4) 61P-W012C (5) 52P-R065 (6) Door 502 and 504 (7) Door 510 (8) Connector plate assembly (9) Aircraft Wing Pylon SUU-63( ) .....	-	-

**Table 7. BRU-41( ) MER Weapon Count Does Not Decrease –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

**Table 7. BRU-41( ) MER Weapon Count Does Not Decrease –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Materials Required		
None		
NOTE		
<p>Weapon Station 2, 3, 7, 8 Bomb Schematic (A1-F18AC-740-500, WP060 00) and Bomb Racks Schematic (A1-F18AC-740-500, WP062 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Bomb Ejector Rack BRU-41( ) BRU-41A Pylon Harness 1453AS395 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
NOTE		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open doors 502 and 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect P1 of BRU-41A Pylon Harness from BRU-41( ).		
(4) Disconnect 61P-W012C from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.		
(5) On Aircraft Wing Pylon SUU-63( ) that failed, does ground exist at 61P-W012C pin c? .....	b	c
b. Malfunction is caused by one of the items listed below:		
(1) BRU-41( ) (A1-F18AC-740-300 WP037 01).		

**Table 7. BRU-41( ) MER Weapon Count Does Not Decrease –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step f .....	-	-
c. Do substeps listed below:		
(1) Disconnect P2 of BRU-41A Pylon Harness from 61J-W112.		
(2) Does continuity exist from:		
aircraft ground to P1 pin E aircraft ground to P2 pin 56? .....	d	e
d. Replace BRU-41A Pylon Jumper harness 1453AS395 (A1-F18AC-740-300, WP037 01) and do step f .....	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f .....	-	-
f. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) Door 502 and 504		
(3) Aircraft Wing Pylon SUU-63( )		
(4) BRU-41A Pylon Jumper Harness (P1 and P2) .....	-	-

**Table 8. Status Not Displayed on DDI For Selected MER**

<b>Support Equipment Required</b>
None
<b>Materials Required</b>
None
<b>NOTE</b>
Applicable Weapon Station, 2, 3, 7, 8 or 5 Bomb Schematic (A1-F18AC-740-500, WP060 00, or WP061 00) may be used as an aid when doing this procedure.
For component location, refer to WP007 00.

**Table 8. Status Not Displayed on DDI For Selected MER (Continued)**

Malfunction is caused by one of the items listed below:  Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 Digital Display Indicator IP-1317( )		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
a. Do substeps listed below:  (1) On LDDI, press MENU pushbutton switch.  (2) On LDDI, press STORES pushbutton switch.  (3) On LDDI, press 76 pushbutton switch.  (4) On LDDI, press PROG pushbutton switch.  (5) On LDDI, press UFC pushbutton switch.  (6) On Electronic Equipment Control C-10380/ASQ: (a) Press option 1 select switch. (b) Press keyboard 1 switch. (c) Press keyboard ENT switch.  (7) On master arm control panel assembly, set MASTER switch to ARM.  (8) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.  (9) Is display correct on LDDI? .....	b	c
b. Malfunction is caused by one of the items listed below:  (1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).  (2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) .....	-	-
c. Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-740-300, WP004 00) .....	-	-

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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TESTING - AIRCRAFT BOMB EJECTOR RACK BRU-33( ) RELEASE CIRCUIT TEST**  
**SUSPENSION AND RELEASE MECHANISMS**

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### Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Initiated Built-In Test .....	WP009 00
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

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Test Equipment Hookup, Figure 2 .....	16

### Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AAC 885	-	Incorporation of Zero Retention Force Arming Unit into BRU-32/A and BRU-33/A Bomb Racks (ECP MDA-F/A-18-00247)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0583)	1 Feb 01	-

**Table 1. Release Circuit Test**

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>		
All system components installed.		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication																
<div>Related Systems Required</div> <div>Avionics Cooling Electrical System Maintenance Status Display and Recording System Mission Computer System Multipurpose Display Group</div> <div>Support Equipment Required</div> <table><thead><tr><th>Part Number or Type Designation</th><th>Nomenclature</th></tr></thead><tbody><tr><td>AN/AWM-54</td><td>Aircraft Firing Circuit Test Set</td></tr><tr><td>74D750020-1001</td><td>Breech Test Adapter</td></tr><tr><td>-</td><td>Arming Wire Loop</td></tr><tr><td>74D420030-1001</td><td>Proximity Switch Control</td></tr></tbody></table> <div>Materials Required</div> <div>None</div> <div>NOTE</div> <div>Component locations are shown in WP007 00. Test displays are shown on figure 1 and test equipment hookup is shown on figure 2.</div> <div>For the remainder of this test, test set refers to TS-3021/AWM-54. Test set is part of Aircraft Firing Circuit Test Set AN/AWM-54.</div> <div>1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).</div> <div><div>WARNING</div><div>To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.</div></div> <table><tbody><tr><td>a. Make sure electrical power is off (A1-F18AC-LMM-000).</td><td></td><td></td></tr><tr><td>b. Make sure all weapons are re-moved from aircraft.</td><td></td><td></td></tr></tbody></table>			Part Number or Type Designation	Nomenclature	AN/AWM-54	Aircraft Firing Circuit Test Set	74D750020-1001	Breech Test Adapter	-	Arming Wire Loop	74D420030-1001	Proximity Switch Control	a. Make sure electrical power is off (A1-F18AC-LMM-000).			b. Make sure all weapons are re-moved from aircraft.		
Part Number or Type Designation	Nomenclature																	
AN/AWM-54	Aircraft Firing Circuit Test Set																	
74D750020-1001	Breech Test Adapter																	
-	Arming Wire Loop																	
74D420030-1001	Proximity Switch Control																	
a. Make sure electrical power is off (A1-F18AC-LMM-000).																		
b. Make sure all weapons are re-moved from aircraft.																		



Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER) BRU-41 and BRU-42 if installed on aircraft.</p> <p>g. If gun is installed, make sure gun electrical signal safety switch (aft of door 6) is set to safe (extended) position.</p> <p>h. If gun is installed, make sure gun hold-back mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>i. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove forward and aft chamber assemblies from breeches on Aircraft Bomb Ejector Racks BRU-33( ).</p> <p>b. Remove test set and W1 cable from Aircraft Firing Circuit Test Set AN/AWM-54 (fig 2).</p>		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>When a failed condition is indicated during test set self test, refer to NAVAIR 16-30AWM54-1 for troubleshooting. NAVAIR 16-30AWM54-1 is contained in aircraft firing circuit test set AN/AWM-54.</p>		
<p>c. Connect W1P1 of W1 cable to test set, W1P2 of W1 to breech test adapter, and do test set self test.</p> <p>3. PRELIMINARY.</p> <p>a. Close hooks on all Aircraft Bomb Ejector Racks BRU-33( ), (station under test).</p> <p>b. Set ground safety handle to LOCKED.</p> <p>c. Make sure all Guided Missile Launcher LAU-116( ) hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p> <p>d. Open door 14R (A1-F18AC-LMM-010).</p> <p>e. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 24 and FUZING N switch to 1 and T switch to 6 for station under test.</p> <p>f. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.</p>	<p>SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED.</p> <p>WPN SYS FAIL indicator is black (not latched).</p>	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If knob will not rotate, replace Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP02600).</p> <p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p>
<p align="center"><b>WARNING</b></p> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>g. Connect proximity switch control (A1-F18AC-LMM-000).</p>		

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>h. Apply electrical power (A1-F18AC-LMM-000).</p> <p>i. Connect ground intercommunications (A1-F18AC-LMM-000).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>After completion of Initiated Built-In Test (BIT), leave 1, 2, and 3 switches at ON and continue with this test.</p>		
<p>j. Do Initiated Built-In Test (WP009 00).</p> <p>4. PROCEDURE.</p> <p>a. On LDDI and RDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>b. On LDDI, press STORES pushbutton switch.</p> <p>c. On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>d. On master arm control panel assembly, press and release A/G switch.</p> <p>e. On RDDI, press STORES pushbutton switch.</p>	<p>Menu display appears on LDDI and RDDI.</p> <p>Stores display appears on LDDI.</p> <p>1. A/G indicator light comes on.</p> <p>2. Ground safety handle moves to UNLOCKED.</p> <p>Stores display appears on RDDI.</p>	<p>Replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>On F/A-18A do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).</p> <p>Do table 1 (WP033 02).</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>

Table 1. Release Circuit Test (Continued)



Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>Do steps 4f through 4k as required to complete PROG 5. If this program was previously selected it will be displayed when power is applied. If an X is displayed through PROG, the program is incomplete. If the X is removed from PROG, do step 4l.</p>		
f. On RDDI, press 82B pushbutton switch.	1. Selection indicated by box around 82B with X through 82B.	Enter correct store code on Armament Computer CP-1342/AYQ-9(V).
	2. Box appears around 2 ◇82B in wing form of station being checked.	Do table 5 (WP031 00).
g. On RDDI, press PROG pushbutton switch.	PROG 5 appears on RDDI, X may appear through PROG.	Repeat this step until PROG 5 appears. If PROG 5 does not appear, replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
h. On RDDI, press UFC pushbutton switch.	1.  Box appears around UFC on RDDI.	 Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
	2. Electronic Equipment Control C-10380/ASQ (equipment control) displays options listed below:	See Electronic Equipment Control C-10380/ASQ Lamp and Switch Test (A1-F18AC-741-200, WP004 00).
	a. QTY may appear in option 1 display.	
	b. MULT may appear in option 2 display.	
	c. INT may appear in option 3 display.	
i. On Electronic Equipment Control C-10380/ASQ, press option 1 select switch and do substeps below:	Option 1 select colon (:) appears on left side of option 1 display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>If an error occurs while pressing keyboard switches, press keyboard CLR switch and repeat step.</p>		
(1) Press keyboard 1 switch.	1 is displayed on equipment control scratch pad display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
(2) Press keyboard ENT switch.	1 is displayed on QTY line on RDDI.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
j. On RDDI, press MFUZ pushbutton switch.	Fuzing options displayed on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
k. On RDDI, press N/T pushbutton switch.	1. N/T displayed on MFUZ line in program.  2. X removed from PROG 5 line on RDDI.	Enter correct fuze code on Armament Computer CP-1342/AYQ-9(V).  Select PROG 5, do steps 4f through 4k.
l. On master arm control panel assembly, set MASTER switch to ARM.	SAFE is displayed on RDDI.	Do table 2 (WP010 17).
m. In nose wheelwell on left side, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged.  2. ARM is displayed on RDDI.	Do table 1 (WP010 00).  Do table 1 (WP010 17).
n. Install breech test adapter in forward breech of right aircraft bomb ejector rack.	3. X removed and RDY displayed under 82B on RDDI.	Do table 5 (WP031 00).

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>o. WITH AIRCRAFT BOMB EJECTOR RACK BRU-33/A BEFORE F18 AAC 885, insert arming wire loop in nose and tail arming units of station under test.</p> <p>WITH AIRCRAFT BOMB EJECTOR RACK BRU-33A/A; ALSO AIRCRAFT BOMB EJECTOR RACK BRU-33/A AFTER AAC 885, insert arming wire loop in nose and tail arming units of station under test and press detent button on arming units.</p> <p>p. On test set, set FCTN selector switch to F/C.</p>	Arming wire retained in arming units.	Replace arming unit (A1-F18AC-740-300, WP029 00).
<p style="text-align: center;"><b>NOTE</b></p> <p>If any step in the procedure below fails, do test set self test before doing troubleshooting. Adapter must be removed from breech to do self test.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 10A: When troubleshooting, maintenance codes are displayed on Digital Display Indicator ID-2150/ASM-612 (nose wheelwell DDI, left side). Read and record maintenance codes.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 15C AND UP: When troubleshooting, maintenance codes are displayed on the cockpit Digital Display Indicator ID-1317( ) (LDDI and RDDI) in hexadecimal and on the Digital Display Indicator ID-2150/ASM (nose wheelwell DDI, left side) in decimal. Read and record maintenance codes displayed in the cockpit only.</p>		
<p>q. On test set, press and hold TEST switch.</p> <p>r. On aircraft controller grip assembly, press and hold A/G weapon release switch.</p>	GO light on test set comes on.	<p>1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black. If not, read and record maintenance codes in appropriate location. If maintenance code 072, 073, 076, 077, or 078, or 085 is displayed, do table 1 (WP010 00).</p> <p>2. Do table 2 (WP033 02).</p>
<p>s. On test set, release TEST switch.</p>	GO light on test set goes off.	Replace test set.

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
t. WITH AIRCRAFT BOMB EJECTOR RACK BRU-33/A BEFORE F18 AAC 885, pull on arming wires. WITH AIRCRAFT BOMB EJECTOR RACK BRU-33A/A; ALSO AIRCRAFT BOMB EJECTOR RACK BRU-33/A AFTER F18 AAC 885, open bomb rack hooks and tug arming wires sharply.	Arming wire loop retained in arming units.	Do table 4 (WP033 02).
u. On aircraft controller grip assembly, release A/G weapon release switch.		
v. WITH AIRCRAFT BOMB EJECTOR RACK BRU-33/A BEFORE F18 AAC 885, pull on arming wires.	Arming wire loop releases from arming units.	1. Do table 5, WP033 02. 2. Replace arming unit (A1-F18AC-740-300, WP029 00).
w. WITH AIRCRAFT BOMB EJECTOR RACK BRU-33 A/A; ALSO AIRCRAFT BOMB EJECTOR RACK BRU-33/A AFTER F18 AAC 885, pull on arming wires.	Arming wire loop retained in arming unit.	1. Do table 4, WP033 02. 2. Adjust or replace arming unit (A1-F18AC-740-300, WP029 00).
x. WITH AIRCRAFT BOMB EJECTOR RACK BRU-33 A/A; ALSO AIRCRAFT BOMB EJECTOR RACK BRU-33/A AFTER F18 AAC 885, close bomb rack hooks.	Arming wire retained in arming unit.	1. Do table 4, WP033 02. 2. Adjust or replace arming unit (A1-F18AC-740-300, WP029 00).
y. On test set, set FCTN switch to S/V.		
z. On test set, press and release TEST switch.	GO light on test set comes on and remains on until TEST switch is released.	Do table 3 (WP033 02).
aa. Remove breech test adapter from forward breech and install in aft breech of right aircraft bomb ejector rack.		
ab. On master arm control panel assembly, press and release A/G switch.	A/G indicator light goes off.	On F/A-18A, do table 1 (WP010 32). On F/A-18B, do table 2, (WP010 32).

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
ac. On proximity switch control, set MAIN GEAR NOSE GEAR and GEAR UPLOCK switches to NORM.	Ground safety handle moves to LOCKED.	Do table 1 (WP033 02).
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">After 3 switch is set to B ON, allow Stores Management System 3 minutes to complete initial BIT.</p>		
ad. On GND PWR control panel assembly, set 3 switch to AUTO, then to B ON and hold for 3 seconds.	Switch remains on (latched).	<p>1. If switch unlatches in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).</p> <p>2. If switch will not remain on, troubleshoot (A1-F18AC-FIM-000, WP121 00).</p>
ae. On RDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed.	MENU display appears on RDDI.	Replace Right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
af. On RDDI, press and release STORES pushbutton switch.	STORES display appears on RDDI.	Replace Right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
ag. On proximity switch control, set MAIN GEAR, and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
ah. On master arm control panel assembly, press and release A/G switch.	<p>1. A/G indicator light comes on.</p> <p>2. Ground safety handle moves to UNLOCKED.</p>	<p>On F/A-18A, do table 1, (WP010 34).</p> <p>On F/A-18B, do table 2, (WP010 34).</p> <p>Do Table 1 (WP033 02).</p>
ai. On RDDI, press and release 82B pushbutton switch.		
aj. On test set set FCTN selector switch to F/C.		




Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>If any step in the procedure below fails, self test test set before doing troubleshooting. Adapter must be removed from breech to do self test.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 10A: When troubleshooting, maintenance codes are displayed on Digital Display Indicator ID-2150/ASM-612 (nose wheelwell DDI, left side). Read and record maintenance codes.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 15C AND UP: When troubleshooting, maintenance codes are displayed on the cockpit Digital Display Indicator ID-1317( ) (LDDI and RDDI) in hexadecimal and on the Digital Display Indicator ID-2150/ASM (nose wheelwell DDI, left side) in decimal. Read and record maintenance codes displayed in the cockpit only.</p>		
ak. On test set, press and hold TEST switch.	GO light on test set comes on.	1. Observe WPN SYS FAIL on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black. If not, read and record maintenance codes in appropriate location. If maintenance code 072, 073, 076, 077, 078, or 085 is displayed, do table 1 (WP010 00).
al. On test set release TEST switch.	GO light on test set goes off.	2. Do table 2 (WP033 02).
am. WITH AIRCRAFT BOMB EJECTOR RACK BRU-33A/A; ALSO AIRCRAFT BOMB EJECTOR RACK BRU-33/A AFTER F18 AAC 885, tug sharply on arming wires.	Arming wires retained in arming units.	Replace test set.
an. On aircraft controller grip assembly, release A/G weapon release switch.		Adjust or replace arming unit (A1-F18AC-740-300, WP029 00).
ao. WITH AIRCRAFT BOMB EJECTOR RACK BRU-33A/A; ALSO AIRCRAFT BOMB EJECTOR RACK BRU-33/A AFTER F18 AAC 885, open bomb rack hooks.	Arming wires release from arming units.	
ap. On test set, set FCTN switch to S/V.		Adjust or replace arming unit (A1-F18AC-740-300, WP029 00).

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>aq. On test set, press and release TEST switch.</p> <p>ar. Repeat steps 4n through 4aq on left aircraft bomb ejector rack.</p> <p>as. Repeat steps 4n through 4aq on remaining aircraft Bomb Ejector Racks BRU-33( ), or do SHUTDOWN.</p> <p>5. SHUTDOWN.</p> <p>a. On master arm control panel assembly, set MASTER switch to SAFE.</p> <p>b. On master arm control panel assembly, press and release A/G switch.</p> <p>c. On proximity switch control, set MAIN GEAR, NOSE GEAR and GEAR UPLOCK switches to NORM.</p> <p>d. On LDDI and RDDI, set power switch to OFF.</p> <p>e. On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.</p> <p>f. Remove electrical power (A1-F18AC-LMM-000).</p> <p>g. Disconnect proximity switch control (A1-F18AC-LMM-000).</p> <p>h. Disconnect ground intercommunications (A1-F18AC-LMM-000).</p> <p>i. Close door 14R (A1-F18AC-LMM-010).</p> <p>j. Remove breech test adapter from breech.</p>	<p>GO light on test set comes on and remains on until switch is released.</p> <p>1. SAFE displayed on RDDI.</p> <p>2. ARMAMENT OVERRIDE switch disengages.</p> <p>A/G indicator light goes off.</p> <p>Ground safety handle moves to LOCKED.</p>	<p>Do table 3 (WP033 02).</p> <p>Do table 2 (WP010 17).</p> <p>Do table 3 (WP010 17).</p> <p>On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).</p> <p>Do table 1 (WP033 02).</p>

Table 1. Release Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
k. Disconnect W1 cable from breech test adapter and test set and stow.  l. Install chamber assemblies in breech of Aircraft Bomb Ejector Racks BRU-33( ).		
<b>LEGEND</b>		
 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		

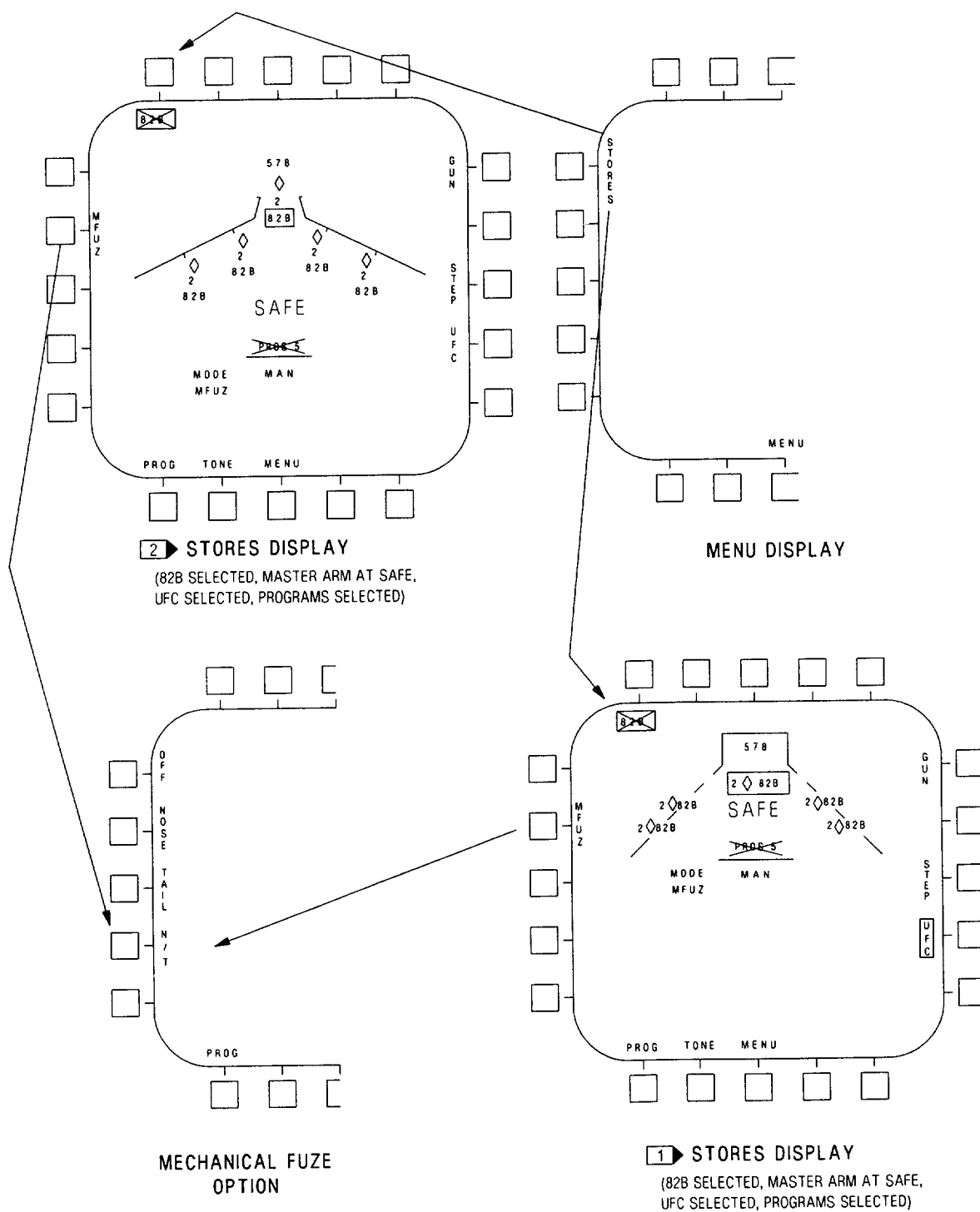
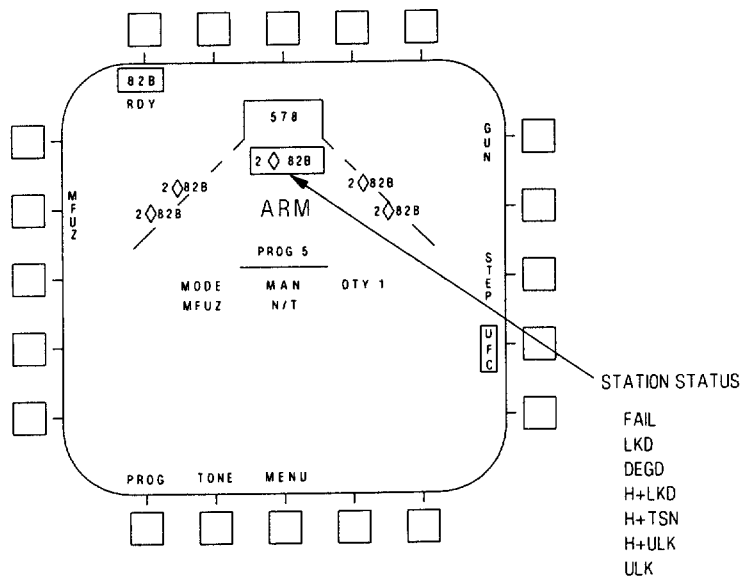
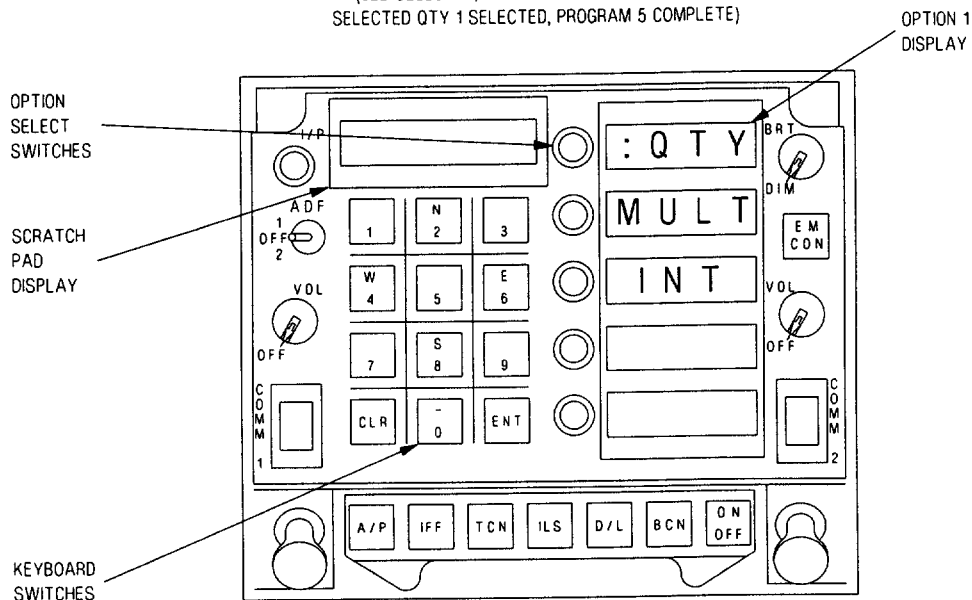


Figure 1. Test Displays (Sheet 1)



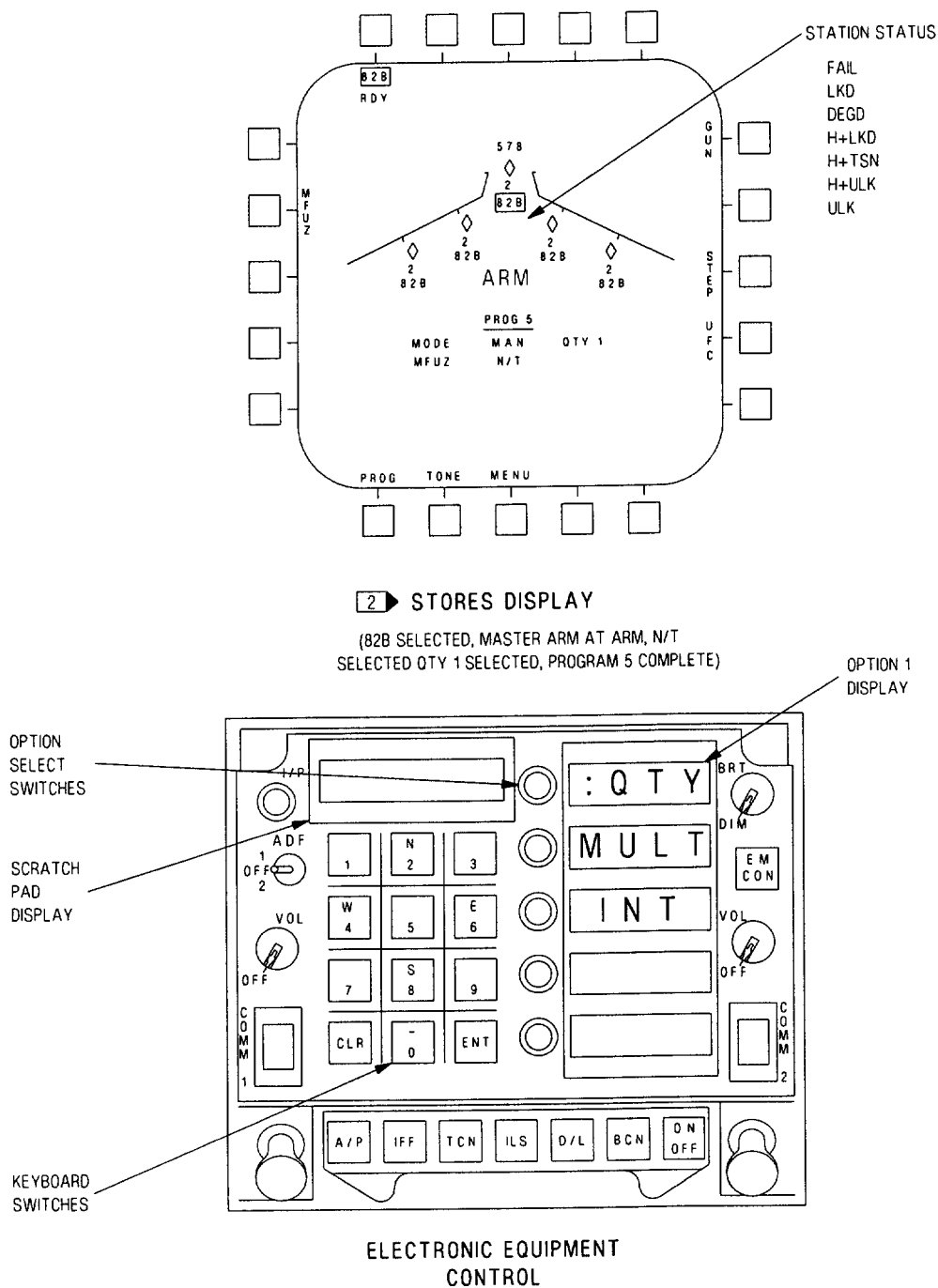
# 1 STORES DISPLAY

(82B SELECTED, MASTER ARM AT ARM, N/T  
SELECTED QTY 1 SELECTED, PROGRAM 5 COMPLETE)



## ELECTRONIC EQUIPMENT CONTROL

Figure 1. Test Displays (Sheet 2)



### LEGEND

- 1** WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A (A1-F18AC-SCM-000).
- 2** WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C (A1-F18AC-SCM-000).

Figure 1. Test Displays (Sheet 3)

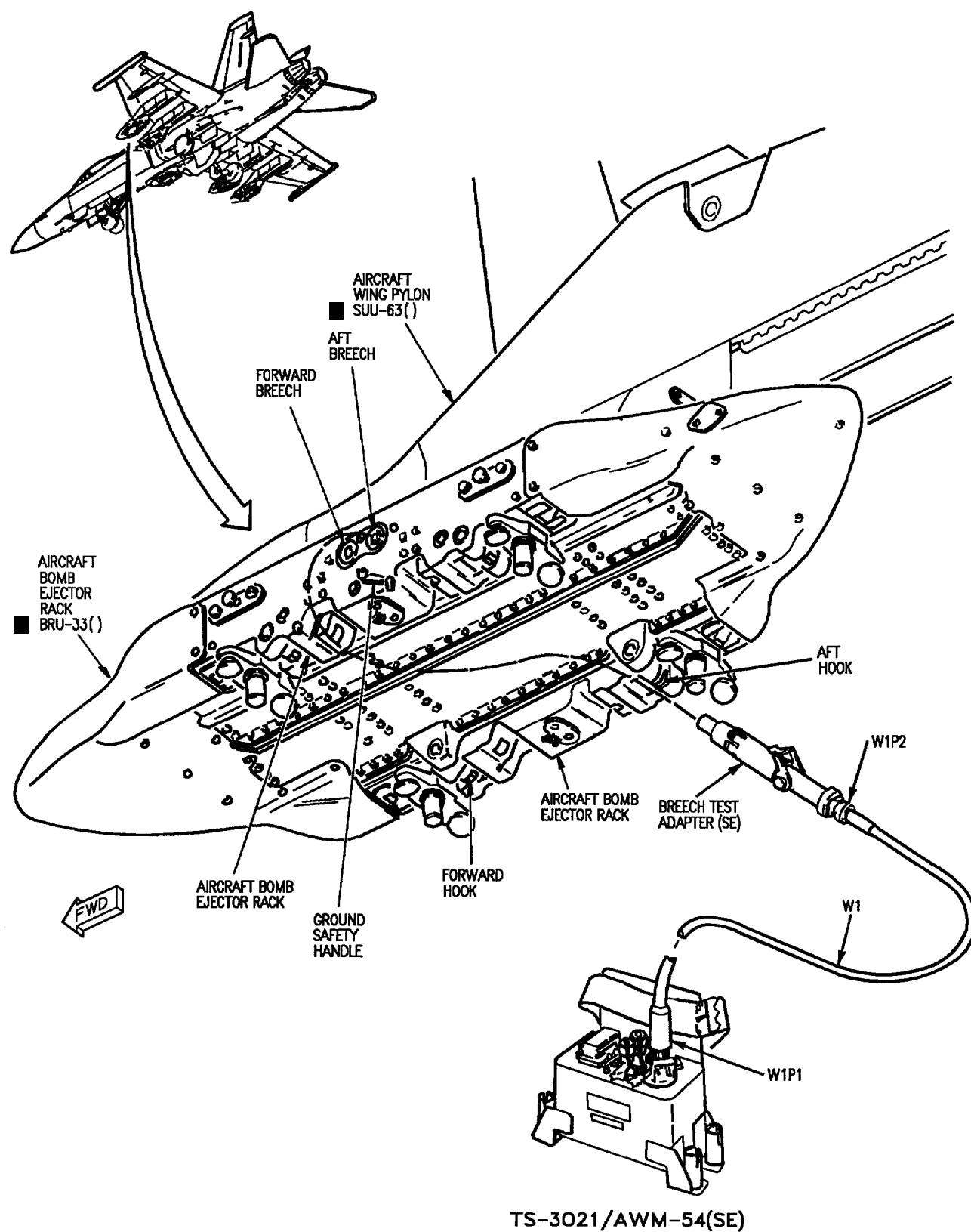


Figure 2. Test Equipment Hookup

03301002





## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIRCRAFT BOMB EJECTOR RACK BRU-33( ) RELEASE CIRCUIT TEST

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**Table 1. Ground Safety Handle Does Not Move To UNLOCKED Or LOCKED,  
Bomb Ejector Rack BRU-33( )**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 1. Ground Safety Handle Does Not Move To UNLOCKED Or LOCKED, Bomb Ejector Rack BRU-33( ) (Continued)**

NOTE		
<p>Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Bomb Ejector Rack BRU-33( )</li> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Connector Plate Assembly</li> <li>BRU-33 Wing Pylon Jumper Cable W56232</li> <li>BRU-33 Centerline Jumper Cable W56226</li> <li>No. 4 Circuit Breaker Panel Assembly</li> <li>No. 7 Circuit Breaker/Relay Panel Assembly</li> <li>Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</li> <li>Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> </ul>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist?” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		

**Table 1. Ground Safety Handle Does Not Move To UNLOCKED Or LOCKED,  
Bomb Ejector Rack BRU-33( ) (Continued)**

Procedure	No	Yes
<p>(2) If failure is on centerline, open door 510 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(3) If failure is on wing station, open door 502 on wing pylon (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-Y100A from Aircraft Bomb Ejector Rack BRU-33( ).</p>		
<div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 10px auto;"><b>WARNING</b></div> <p style="text-align: center;">To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<p>(5) Connect proximity switch control (A1-F18AC-LMM-000).</p> <p>(6) Connect a ground at 61P-Y100A pins A, C and Y.</p> <p>(7) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(8) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</p> <p>(9) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</p> <p>(10) On master arm control panel assembly, press and release A/G switch or on LH vertical console control panel assembly, set SELECT JETT switch to RACK/LCHR.</p>		
<p>(11) If failure is on Aircraft Wing Pylon SUU-63( ), does 28vdc exist at 61P-Y100A pin c for UNLOCKED or LOCKED? .....</p>	b	c
<p>(12) If failure is on Aircraft Fuselage Centerline Pylon SUU-62( ), does 28vdc exist at 61P-Y100A pin c for UNLOCKED or LOCKED? .....</p>	p	t
<p>b. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 10L or 10R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly for right wing pylons or disconnect 52P-C057C from no. 7 circuit breaker/ relay panel assembly for left wing pylons.</p> <p>(4) Does continuity exist from:</p>		

**Table 1. Ground Safety Handle Does Not Move To UNLOCKED Or LOCKED,  
Bomb Ejector Rack BRU-33( ) (Continued)**

Procedure	No	Yes
On 161353 THRU 161359, station 7: 61P-Y100A pin c to 52P-D026C pin g? .....	e	d
On 161360 AND UP, station 7: 61P-Y100A pin c to 52P-D026C pin u? .....	e	d
On 161353 THRU 161359, station 8: 61P-Y100A pin c to 52P-D026C pin h? .....	e	d
On 161360 AND UP, station 8: 61P-Y100A pin c to 52P-D026C pin t station 2: 61P-Y100A pin c to 52P-C057C pin r station 3: 61P-Y100A pin c to 52P-C057C pin k? .....	e	d
c. On Aircraft Wing Pylon SUU-63( ) that failed, does 28vdc exist at 61P-Y100A pin B for UNLOCKED?	h	k
d. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD075 or 61CBD079 (A1-F18AC-420-300, WP025 00) or no. 7 circuit breaker/relay panel assembly wiring and 61CBC059 or 61CBC055 (A1-F18AC-420-300, WP027 00) and do step ac .....	-	-
e. Do substeps listed below:		
(1) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Y112 from 61J-W112 on pylon stores electrical disconnect panel.		
(3) Does continuity exist from 61P-Y112 pin 1 to 61P-Y100A pin c? .....	f	g
f. Replace BRU-33 Wing Pylon Jumper Cable W56232 or BRU-33 Centerline Jumper Cable W56226 (A1-F18AC-740-300, WP028 00) and do step ac .....	-	-
g. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist from:		
On 161353 THRU 161359, station 7: 52J-V067 pin 94 or 102 to 52P-D026C pin g? .....	i	j
On 161360 AND UP, station 7: 52J-V067 pin 94 or 102 to 52P-D026C pin u? .....	i	j
On 161353 THRU 161359, station 8: 52J-V068 pin 94 or 102 to 52P-D026C pin h? .....	i	j

**Table 1. Ground Safety Handle Does Not Move To UNLOCKED Or LOCKED,  
Bomb Ejector Rack BRU-33( ) (Continued)**

Procedure	No	Yes
<p>On 161360 AND UP,  station 8: 52J-V068 pin 94 or 102 to 52P-D026C pin t  station 2: 52J-U062 pin 94 or 102 to 52P-C057C pin r  station 3: 52J-U063 pin 94 or 102 to 52P-C057C pin k? .....</p>	i	j
<p>h. Do substeps listed below:</p> <p>(1) Remove aircraft electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012C from Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.</p> <p>(4) Does continuity exist from:</p> <p>61P-W012C pin BB to 61P-Y100A pin Y  61P-W012C pin b to 61P-Y100A pin R  61P-W012C pin d to 61P-Y100A pin B  61P-W012C pin FF to 61P-Y100A pin E  61P-W012C pin DD to 61P-Y100A pin F  61P-W012C pin EE to 61P-Y100A pin S  61P-W012C pin t to 61P-Y100A pin T  61P-W012C pin AA to 61P-Y100A pin A  61P-W012C pin J to 61P-Y100A pin C? .....</p>	j	l
i. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ac .....	-	-
j. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step ac .....	-	-
k. On master arm control panel assembly, press and release A/G switch. Does 28vdc exist at 61P-Y100A pin R for LOCKED? .....	l	h
<p>l. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012A from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) Does 28vdc exist at 61P-W012A pin JJ? .....</p>	m	o
<p>m. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

**Table 1. Ground Safety Handle Does Not Move To UNLOCKED Or LOCKED,  
Bomb Ejector Rack BRU-33( ) (Continued)**

Procedure	No	Yes
(2) Open door 10L or door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly for right wing pylons or disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly for left wing pylons.		
(4) Does continuity exist from:		
On 161363 THRU 161369, station 7: 61P-W012A pin JJ to 52P-D026C pin g? .....	g	d
On 161360 AND UP, station 7: 61P-W012A pin JJ to 62P-D026C pin u? .....	g	d
On 161353 THRU 161359, station 8: 61P-W012A pin JJ to 52P-D026C pin h? .....	g	d
On 161360 AND UP, station 8: 61P-W012A pin JJ to 52P-D026C pin t station 2: 61P-W012A pin JJ to 52P-C057C pin r station 3: 61P-W012A pin JJ to 52P-C057C pin k? .....	g	d
n. Replace Aircraft Bomb Ejector Rack BRU-33( ) (A1-F18AC-740-300, WP028 00) and do step ac .....	-	-
o. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step ac .....	-	-
p. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) Does continuity exist from:		
On 161363 THRU 161359, 52P-D026C pin S to 61P-Y100A pin c		
On 161360 AND UP, 52P-D026C pin D to 61P-Y100A pin c? .....	q	s
q. Do substeps listed below:		
(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Y112 from 52J-Z065 on connector plate assembly.		

**Table 1. Ground Safety Handle Does Not Move To UNLOCKED Or LOCKED,  
Bomb Ejector Rack BRU-33( ) (Continued)**

Procedure	No	Yes
(3) Does continuity exist from 61P-Y100A pin c to 61P-Y112 pin 1? .....	f	r
r. Do substeps listed below:		
(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(2) Disconnect 52P-R065 from 52J-Z065 on connector plate assembly.		
(3) Does continuity exist from:		
On 161353 THRU 161359, 52P-D026C pin S to 52P-R065 pin 1		
On 161360 AND UP, 52P-D026C pin D to 52P-R065 pin 1? .....	i	ab
s. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD067 or 61CBD071 (A1-F18AC-420-300, WP029 00) and do step ac .....	-	-
t. On Aircraft Fuselage Centerline Pylon SUU-62( ), does 28vdc exist at 61P-Y100A pin B for UNLOCKED? .....	u	v
u. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-R016A from right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) Does 28vdc exist at 61P-R016A pin 91? .....	w	z
v. On master arm control panel assembly, press and release A/G switch. Does 28vdc exist at 61P-Y100A pin R for LOCKED on centerline pylon? .....	x	n
w. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) Does continuity exist from 52P-D026C pin w to 61P-R016A pin 91? .....	i	s
x. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		

**Table 1. Ground Safety Handle Does Not Move To UNLOCKED Or LOCKED,  
Bomb Ejector Rack BRU-33( ) (Continued)**

Procedure	No	Yes
<p>(2) Disconnect 61P-R016A from right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).</p> <p>(3) Does continuity exist from:</p> <p>61P-R016A pin 12 to 61P-Y100A pin A  61P-R016A pin 68 to 61P-Y100A pin T  61P-R016A pin 77 to 61P-Y100A pin S  61P-R016A pin 56 to 61P-Y100A pin F  61P-R016A pin 67 to 61P-Y100A pin E  61P-R016A pin 76 to 61P-Y100A pin Y  61P-R016A pin 13 to 61P-Y100A pin C  61P-R016A pin 8 to 61P-Y100A pin R  61P-R016A pin 16 to 61P-Y100A pin B? .....</p>	y	z
<p>y. Do substeps listed below:</p> <p>(1) Open door 510 centerline pylon (A1-F18AC-LMM-010).</p> <p>(2) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).</p> <p>(3) Disconnect 61P-Y112 and 52P-R065 from 52J-Z065 on connector plate assembly.</p> <p>(4) Does continuity exist from:</p> <p>Aircraft ground to 52P-R065 pin 36  Aircraft ground to 52P-R065 pin 2  Aircraft ground to 52P-R065 pin 48  61P-R016A pin 12 to 52P-R065 pin 21  61P-R016A pin 68 to 52P-R065 pin 3  61P-R016A pin 77 to 52P-R065 pin 14  61P-R016A pin 56 to 52P-R065 pin 4  61P-R016A pin 67 to 52P-R065 pin 18  61P-R016A pin 76 to 52P-R065 pin 20  61P-R016A pin 13 to 52P-R065 pin 5  61P-R016A pin 8 to 52P-R065 pin 26  61P-R016A pin 16 to 52P-R065 pin 27? .....</p>	i	aa
<p>z. Replace right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step ac .....</p>	-	-



**Table 1. Ground Safety Handle Does Not Move To UNLOCKED Or LOCKED,  
Bomb Ejector Rack BRU-33( ) (Continued)**

Procedure	No	Yes
aa. Does continuity exist from:  61P-Y112 pin 21 to 61P-Y100A pin A 61P-Y112 pin 3 to 61P-Y100A pin T 61P-Y112 pin 14 to 61P-Y100A pin S 61P-Y112 pin 4 to 61P-Y100A pin F 61P-Y112 pin 18 to 61P-Y100A pin E 61P-Y112 pin 20 to 61P-Y100A pin Y 61P-Y112 pin 5 to 61P-Y100A pin C 61P-Y112 pin 26 to 61P-Y100A pin R 61P-Y112 pin 27 to 61P-Y100A pin B 61P-Y112 pin 48 to 61P-Y100A pin G 61P-Y112 pin 2 to 61P-Y100A pin P 61P-Y112 pin 36 to 61P-Y100A pin X? .....	f	ab
ab. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step ac .....	-	-
ac. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:  (1) 61P-Y100A (2) 61P-Y112 (3) 52P-R065 (4) 61P-R016A (5) 61P-W012A (6) 61P-W012C (7) 52P-D026C (8) 52P-C057C (9) Door 10L/R (10) Door 502 and 504 (11) Door 510 (12) Connector plate assembly (13) Aircraft Wing Pylon SUU-63( ) (14) Disconnect proximity switch control .....	-	-

**Table 2. GO Light On Test Set Does Not Come On, Bomb Ejector Rack  
BRU-33( ) Release**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Bomb Racks Schematic (A1-F18AC-740-500, WP062 00) and applicable Weapon Station 2, 3, 7, 8 Bomb Schematic (A1-F18AC-740-500, WP060 00) or Weapon Station 5 Bomb Schematic (A1-F18AC-740-500, WP061 00) may be used as aids when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-33( ) Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Connector Plate Assembly BRU-33 Wing Pylon Jumper Cable W56232 BRU-33 Centerline Jumper Cable W56226 Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 2. GO Light On Test Set Does Not Come On, Bomb Ejector Rack  
BRU-33( ) Release (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
<p style="text-align: center;"><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(3) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(4) Disconnect 61P-Y100A from Aircraft Bomb Ejector Rack BRU-33( ).		
(5) Connect a ground at 61P-Y100A pins A, C, and Y.		
(6) Open door 14R (A1-F18AC-LMM-010).		
(7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 24.		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div>		
<p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
(8) Connect proximity switch control (A1-F18AC-LMM-000).		
(9) Turn on electrical power (A1-F18AC-LMM-000).		
(10) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
(11) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK to UP.		

**Table 2. GO Light On Test Set Does Not Come On, Bomb Ejector Rack  
BRU-33( ) Release (Continued)**

Procedure	No	Yes
(12) On master arm control panel assembly, press and release A/G switch.		
(13) Do the release circuit test steps to select display and complete program for release, Table 1 (WP033 01).		
(14) On master arm control panel assembly, set MASTER switch to ARM.		
(15) In nose wheelwell on left side, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(16) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(a) Connect multimeter between 61P-Y100A pins J and X (ground).		
(b) On aircraft controller grip assembly, press and release A/G weapon release switch and test for 28vdc at 61P-Y100A pin J.		
(c) Repeat substeps (a) and (b) for 61P-Y100A pin H and X (ground).		
(d) Did 28vdc exist at 61P-Y100A pins J and H? .....	b	f
(17) If failure is on Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:		
(a) Connect multimeter between 61P-Y100A pins J and X (ground).		
(b) On controller grip assembly, press and release A/G weapon release switch and test for 28vdc at 61P-Y100A pin J.		
(c) Repeat substeps (a) and (b) for 61P-Y100A pins H and X (ground).		
(d) Did 28vdc exist at 61P-Y100A pins J and H? .....	j	h
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.		
(4) Does continuity exist from:		
Aircraft ground to 61P-Y100A pin X		
61P-W012C pin D to 61P-Y100A pin J		
61P-W012C pin B to 61P-Y100A pin H? .....	c	i
c. Do substeps listed below:		

**Table 2. GO Light On Test Set Does Not Come On, Bomb Ejector Rack  
BRU-33( ) Release (Continued)**

Procedure	No	Yes
(1) Disconnect 61P-Y112 from 61J-W112 on pylon stores electrical disconnect panel.		
(2) Does continuity exist from:		
61P-Y100A pin X to 61P-Y112 pin 36		
61P-Y100A pin J to 61P-Y112 pin 77		
61P-Y100A pin H to 61P-Y112 pin 93? .....	d	e
d. Replace BRU-33 Wing Pylon Jumper Cable W56232 or BRU-33 Centerline Jumper Cable W56226 (A1-F18AC-740-300, WP028 00) and do step p .....	-	-
e. Does continuity exist from:		
61J-W112 pin 36 to aircraft ground		
61J-W112 pin 77 to 61P-W012C pin D		
61J-W112 pin 93 to 61P-W012C pin B? .....	f	i
f. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist from:		
station 7: 52J-V067 pin 20 to aircraft ground		
station 8: 52J-V068 pin 20 to aircraft ground		
station 2: 52J-U062 pin 20 to aircraft ground		
station 3: 52J-U063 pin 20 to aircraft ground? .....	g	h
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step p .....	-	-
h. Replace Aircraft Bomb Ejector Rack BRU-33( ) (A1-F18AC-740-300, WP028 00) or replace aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step p ...	-	-
i. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step p .....	-	-
j. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-R016A from Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).		
(3) Does continuity exist from:		
61P-R016A pin 72 to 61P-Y100A pin J		
61P-R016A pin 71 to 61P-Y100A pin H		
Aircraft ground to 61P-Y100A pin X? .....	k	m

**Table 2. GO Light On Test Set Does Not Come On, Bomb Ejector Rack  
BRU-33( ) Release (Continued)**

Procedure	No	Yes
<p>k. Do substeps listed below:</p> <p>(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Y112 from 52J-Z065 on connector plate assembly.</p> <p>(3) Does continuity exist from:</p> <p>61P-Y100A pin X to 61P-Y112 pin 36</p> <p>61P-Y100A pin J to 61P-Y112 pin 77</p> <p>61P-Y100A pin H to 61P-Y112 pin 93? .....</p>	d	l
<p>l. Does continuity exist from:</p> <p>61P-R016A pin 71 to 52J-Z065 pin 93</p> <p>61P-R016A pin 72 to 52J-Z065 pin 77? .....</p>	n	h
<p>m. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step p .....</p>	-	-
<p>n. Do substeps listed below:</p> <p>(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).</p> <p>(2) Disconnect 52P-R065 from 52J-Z065 on connector plate assembly.</p> <p>(3) Does continuity exist from:</p> <p>61P-R016A pin 71 to 52P-R065 pin 93</p> <p>61P-R016A pin 72 to 52P-R065 pin 77</p> <p>Aircraft ground to 52P-R065 pin 36? .....</p>	g	o
<p>o. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step p .....</p>	-	-
<p>p. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 61P-Y100A</p> <p>(2) 61P-Y112</p> <p>(3) 61P-R016A</p> <p>(4) 61P-W012C</p> <p>(5) 52P-R065</p> <p>(6) Door 14R</p>		



**Table 2. GO Light On Test Set Does Not Come On, Bomb Ejector Rack  
BRU-33( ) Release (Continued)**

Procedure	No	Yes
(7) Door 502 and 504		
(8) Door 510		
(9) Connector plate assembly		
(10) Aircraft Wing Pylon SUU-63( )		
(11) Disconnect proximity switch control .....	-	-

**Table 3. GO Light On Test Set Does Not Come On, S/V Test BRU-33( )**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Bomb Racks Schematic (A1-F18AC-740-500, WP062 00) and applicable Weapon Station 2, 3, 7, 8 Bomb Schematic (A1-F18AC-740-500, WP060 00) or Weapon Station 5 Bomb Schematic (A1-F18AC-740-500, WP061 00) may be used as aids when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below	
Aircraft Bomb Ejector Rack BRU-33( )	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
Connector Plate Assembly	
BRU-33 Wing Pylon Jumper Cable W56232	
BRU-33 Centerline Jumper Cable W56226	
Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

**Table 3. GO Light On Test Set Does Not Come On, S/V Test BRU-33( )**  
(Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p> </div> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) If failure is on centerline, open door 510 on centerline pylon (A1-F18AC-LMM-010).</li> <li>(3) If failure is on wing station, open door 502 on wing pylon (A1-F18AC-LMM-010).</li> <li>(4) Disconnect 61P-Y100A from Aircraft Bomb Ejector Rack BRU-33( ).</li> <li>(5) Connect a ground at 61P-100A pins A, C and Y.</li> <li>(6) Open door 14R (A1-F18AC-LMM-010).</li> <li>(7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 24 and FUZING switches to 0.</li> </ol> <div style="text-align: center;">  <p>WARNING</p> </div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		



**Table 3. GO Light On Test Set Does Not Come On, S/V Test BRU-33( )  
(Continued)**

Procedure	No	Yes
(8) Connect proximity switch control (A1-F18AC-LMM-000).		
(9) Turn on electrical power (A1-F18AC-LMM-000).		
(10) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
(11) On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(12) On master arm control panel assembly, press and release A/G switch.		
(13) Do the release circuit test steps to select display and complete program for release, table 1 (WP033 01).		
(14) On master arm control panel assembly, set MASTER switch to ARM.		
(15) In nose wheelwell on left side, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(16) On Aircraft Wing Pylon SUU-63( ), do substeps listed below:		
(a) On aircraft controller grip assembly, press and release A/G weapon release switch.		
(b) Connect multimeter between 61P-Y100A pins J and X (ground) or pin H and X (ground).		
(c) Does voltage exist at 61P-Y100A pin J or H? .....	b	c
(17) If failure is on Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps below:		
(a) On controller grip assembly, press and release A/G weapon release switch.		
(b) Connect multimeter between 61P-Y100A pins J and X (ground) or pin H and X (ground).		
(c) Does voltage exist at 61P-Y100A pin J or H? .....	b	h
b. Replace Aircraft Bomb Ejector Rack BRU-33( ) (A1-F18AC-740-300, WP028 00) and do step n .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-Y112 from 61J-W112 on pylon stores electrical disconnect panel.		
(3) Connect a ground at 61J-W112 pin 5, 20 and 21.		

**Table 3. GO Light On Test Set Does Not Come On, S/V Test BRU-33( )  
(Continued)**

Procedure	No	Yes
(4) Do the release circuit test steps to complete a release, table 1, (WP033 01).		
(5) Connect a multimeter between 61J-W112 pin 77 and ground or pin 93 and ground.		
(6) Does voltage exist at 61J-W112 pin 77 and 93? .....	d	e
d. Replace BRU-33 Wing Pylon Jumper Cable W56232 or BRU-33 Centerline Jumper Cable W56226 (A1-F18AC-740-300, WP028 00) and do step n .....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from J3 of Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.		
(4) Connect a ground at J3 pin AA, BB and J.		
(5) Do the release circuit test steps to complete a release, table 1, (WP033 01).		
(6) Connect a multimeter between J3 pin B and ground or pin D and ground.		
(7) Does voltage exist at J3 pins B or D? .....	f	g
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step n .....	-	-
g. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step n .....	-	-
h. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 510 centerline pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-Y112 from 52J-Z065 on connector plate assembly		
(4) Connect a ground at 52J-Z065 pins 5, 20 and 21.		
(5) Do the release circuit test steps to complete a release, table 1, (WP033 01).		
(6) Connect a multimeter between 52J-Z065 pin 77 and ground or pin 93 and ground.		
(7) Does voltage exist at 52J-Z065 pins 77 and 93? .....	d	i
i. Do substeps listed below:		

**Table 3. GO Light On Test Set Does Not Come On, S/V Test BRU-33( )**  
**(Continued)**

Procedure	No	Yes
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).		
(3) Connect a ground at 52P-R065 pins 5, 20 and 21.		
(4) Do the release circuit test steps to complete a release, table 1 (WP033 01).		
(5) Connect a multimeter between 52P-R065 pin 77 and ground or 93 and ground.		
(6) Does voltage exist at 52P-R066 pins 77 or 93? .....	j	k
j. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step n .....	-	-
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-R016A from right Fuselage Command Signal Encoder- Decoder KY-854/AYQ-9(V).		
(3) Does continuity exist from:		
61P-R016A pin 71 to 52P-R065 pin 93		
61P-R016A pin 72 to 52P-R065 pin 77? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step n .....	-	-
m. Replace right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step n .....	-	-
n. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-Y100A		
(2) 61P-Y112		
(3) 61P-R016A		
(4) 61P-W012C		
(5) 52P-R065		
(6) Door 14R		
(7) Door 502 and 504		
(8) Door 510		



**Table 3. GO Light On Test Set Does Not Come On, S/V Test BRU-33( )**  
(Continued)

Procedure	No	Yes
(9) Connector plate assembly		
(10) Aircraft Wing Pylon SUU-63( )		
(11) Disconnect proximity switch control .....	-	-

**Table 4. Arming Units Fail to Hold Arming Wire Loop**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Mechanical Fuzing Schematic (A1-F18AC-740-500, WP075 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Arming Unit Connector Plate Assembly BRU-33 Wing Pylon Jumper Cable W56232 BRU-33 Centerline Jumper Cable W56226 Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

Table 4. Arming Units Fail to Hold Arming Wire Loop (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
<div style="text-align: center;"> <p><b>NOTE</b></p> <p>This procedure applies to the wing pylon or centerline pylon. Do applicable steps for pylon that fails. The remaining steps apply to all pylons.</p> </div>		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) If failure is on centerline, open door 510 on centerline pylon (A1-F18AC-LMM-010).		
(3) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(4) Disconnect 61P-Y100A from Aircraft Bomb Ejector Rack BRU-33( ).		
(5) Connect a ground at 61P-Y100A pins A, C, and Y.		
(6) Open door 14R (A1-F18AC-LMM-010).		
(7) Set Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches to 24.		
<div style="text-align: center;">  <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> </div>		
(8) Connect proximity switch control (A1-F18AC-LMM-000).		

**Table 4. Arming Units Fail to Hold Arming Wire Loop (Continued)**

Procedure	No	Yes
<p>(9) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(10) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.</p> <p>(11) On proximity switch control, set NOSE GEAR and MAIN GEAR switches to WT OFF WHLS and GEAR UPLOCK to UP.</p> <p>(12) On master arm control panel assembly, press and release A/G switch.</p> <p>(13) Do the release circuit test steps to select display and complete program for release, Table 1 (WP033 01).</p> <p>(14) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(15) In nose wheelwell on left side, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(16) On Aircraft Wing Pylon SUU-63( ), do substeps listed below.</p> <p style="padding-left: 40px;">(a) Connect multimeter between 61P-Y100A pins a and N (ground).</p> <p style="padding-left: 40px;">(b) On aircraft controller grip assembly, press and hold A/G weapon release switch and test for 28vdc at 61P-Y100A pin a, then release switch.</p> <p style="padding-left: 40px;">(c) Repeat substeps (a) and (b) for 61P-Y100A pin U and D (ground).</p> <p style="padding-left: 40px;">(d) Did 28vdc exist at 61P-Y100A pins a and U? ..... b f</p> <p>(17) On Aircraft Fuselage Centerline Pylon SUU-62( ), do substeps listed below:</p> <p style="padding-left: 40px;">(a) Connect multimeter between 61P-Y100A pins a and N (ground).</p> <p style="padding-left: 40px;">(b) On controller grip assembly, press and hold A/G weapon release switch and test for 28vdc at 61P-Y100A pin a, then release switch.</p> <p style="padding-left: 40px;">(c) Repeat substeps (a) and (b) for 61P-Y100A pins U and D (ground).</p> <p style="padding-left: 40px;">(d) Did 28vdc exist at 61P-Y100A pins a and U? ..... j h</p> <p>b. Do substeps listed below:</p> <p style="padding-left: 40px;">(1) Turn off electrical power (A1-F18AC-LMM-010).</p> <p style="padding-left: 40px;">(2) Open door 504 on wing station pylon (A1-F18AC-LMM-010).</p> <p style="padding-left: 40px;">(3) Disconnect 61P-W012C from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing station that failed.</p>		

Table 4. Arming Units Fail to Hold Arming Wire Loop (Continued)

Procedure	No	Yes
<p>(4) Does continuity exist from:</p> <p>Aircraft ground to 61P-Y100A pins D and N  61P-W012C pin q to 61P-Y100A pin U  61P-W012C pin y to 61P-Y100A pin a? .....</p>	c	i
c. Do substeps listed below:		
(1) Disconnect 61P-Y112 from 61J-W112 on pylon stores electrical disconnect panel.		
<p>(2) Does continuity exist from:</p> <p>61P-Y100A pin D to 61P-Y112 pin 25  61P-Y100A pin N to 61P-Y112 pin 30  61P-Y100A pin U to 61P-Y112 pin 22  61P-Y100A pin a to 61P-Y112 pin 6? .....</p>	d	e
d. Replace BRU-33 Wing Pylon Jumper Cable W56232 or BRU-33 Centerline Jumper Cable W56226 (A1-F18AC-740-300, WP028 00) and do step p .....	-	-
e. Does continuity exist from:		
<p>61J-W112 pins 25 and 30 to aircraft ground  61J-W112 pin 22 to 61P-W012C pin q  61J-W112 pin 6 to 61P-W012C pin y? .....</p>	f	i
f. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
<p>(2) Does continuity exist from:</p> <p>station 7: 52J-V067 pins 29 and 30 to aircraft ground  station 8: 52J-V068 pins 29 and 30 to aircraft ground  station 3: 52J-U062 pins 29 and 30 to aircraft ground  station 2: 52J-U063 pins 29 and 30 to aircraft ground? .....</p>	g	h
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step p .....	-	-
h. Replace Arming Unit (A1-F18AC-740-300, WP029 00) or replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step p .....	-	-
i. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step p .....	-	-
j. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		

Table 4. Arming Units Fail to Hold Arming Wire Loop (Continued)

Procedure	No	Yes
<p>(2) Disconnect 61P-R016A from Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V).</p> <p>(3) Does continuity exist from:</p> <p>61P-R016A pin 45 to 61P-Y100A pin U  61P-R016A pin 34 to 61P-Y100A pin a  Aircraft ground to 61P-Y100A pins D and N? .....</p>	k	m
k. Do substeps listed below:		
<p>(1) Open door 510 on centerline pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Y112 from 52J-Z065 on connector plate assembly.</p> <p>(3) Does continuity exist from:</p> <p>61P-Y100A pin U to 61P-Y112 pin 72  61P-Y100A pin a to 61P-Y112 pin 6  61P-Y100A pin D to 61P-Y112 pin 25  61P-Y100A pin N to 61P-Y112 pin 30? .....</p>	d	l
l. Does continuity exist from:		
<p>61P-R016A pin 45 to 52J-Z065 pin 72  61P-R016A pin 34 to 52J-Z065 pin 6? .....</p>	n	h
m. Replace Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00) and do step p .....	-	-
n. Do substeps listed below:		
<p>(1) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).</p> <p>(2) Disconnect 52P-R065 from 52J-Z065 on connector plate assembly.</p> <p>(3) Does continuity exist from:</p> <p>61P-R016A pin 45 to 52P-R065 pin 72  61P-R016A pin 34 to 52P-R065 pin 6  Aircraft ground to 52P-R065 pins 25 and 30? .....</p>	g	o
o. Replace connector plate assembly (A1-F18AC-740-300, WP036 00) and do step p .....	-	-
p. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
<p>(1) 61P-Y100A</p> <p>(2) 61P-Y112</p>		



**Table 4. Arming Units Fail to Hold Arming Wire Loop (Continued)**

Procedure	No	Yes
(3) 61P-R016A		
(4) 61P-W012C		
(5) 52P-R065		
(6) Door 14R		
(7) Door 502 and 504		
(8) Door 510		
(9) Connector plate assembly		
(10) Aircraft Wing Pylon SUU-63( )		
(11) Disconnect proximity switch control .....	-	-

**Table 5. Arming Units Fail to Release Arming Wire Loop**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Mechanical Fuzing Schematic (A1-F18AC-740-500, WP075 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
Arming Unit	
BRU-33 Centerline Jumper Cable W56226	
BRU-33 Wing Pylon Jumper Cable W56232	
Connector Plate Assembly	
Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

Table 5. Arming Units Fail to Release Arming Wire Loop (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Close bomb ejector rack BRU-33 suspension hooks (failed station).		
(3) Insert arming wire in arming solenoids, or latch zero retention force (ZRF) arming units.		
(4) Open bomb ejector rack BRU-33 suspension hooks (failed station).		
(5) Pull arming wires.		
(6) Did arming wires release, or ZRF arming units open (unlatch)?	b	c
b. Replace failed arming solenoids, or failed ZRF arming units (A1-F18AC-740-300, WP028 00) and do step s .....	-	-
c. Is troubleshooting being done for BRU-33 on station 5?	d	m
d. Do substeps below:		
(1) Open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Y100A on BRU-33 wing pylon jumper cable from J1 on bomb ejector rack BRU-33( ).		
(3) Open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012C from J1 on Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9 (V).		
(5) Does continuity exist between:		
61P-Y100A pin a and 61P-W012C pin y		
61P-Y100A pin U and 61P-W012C pin q? .....	e	h

Table 5. Arming Units Fail to Release Arming Wire Loop (Continued)

Procedure	No	Yes
e. Do substeps below:		
(1) Disconnect 61P-Y112 on BRU-33 wing pylon jumper cable from 61J-W112.		
(2) Does continuity exist between:		
61J-W112 pin 6 and 61P-W012C pin y		
61J-W112 pin 22 and 61P-W012C pin q? .....	g	f
f. Replace BRU-33 Wing Pylon Jumper Cable W56232 (A1-F18AC-740-300, W028 00) and do step s .....	-	-
g. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step s .....	-	-
h. Does continuity exist between 61P-Y100A pins D/N and aircraft ground? .....	i	l
i. Do substeps below:		
(1) Disconnect 61P-Y112 on BRU-33 wing pylon jumper cable from 61J-W112.		
(2) Does continuity exist between 61J-W112 pins 25/30/48 and aircraft ground? .....	j	f
j. Do substeps below:		
(1) Remove Aircraft Wing Pylon (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between;		
station 2: 52J-U062 pins 29/30/31 and aircraft ground		
station 3: 52J-U063 pins 29/30/31 and aircraft ground		
station 7: 52J-V067 pins 29/30/31 and aircraft ground		
station 8: 52J-V062 pins 29/30/31 and aircraft ground? .....	k	g
k. Isolate defective aircraft wiring (A1-F18( )-WDM-000) and do step s .....	-	-
l. Malfunction is caused by one of the items listed below:		
(1) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
(2) Bomb Ejector Rack BRU-33 (A1-F18AC-740-300, WP028 00).		
Do step s .....	-	-
m. Do substeps below:		
(1) Disconnect 61P-Y100A on BRU-33 wing pylon jumper cable from J1 on bomb ejector rack BRU-33( ).		

Table 5. Arming Units Fail to Release Arming Wire Loop (Continued)

Procedure	No	Yes
<p>(2) Disconnect 61P-W012C from J1 on Signal Encoder-Decoder KY-853/AYQ-9(V).</p> <p>(3) Does continuity exist between:</p> <p>61P-Y100A pin a and 61P-R016A pin 15  61P-Y100A pin U and 61P-R016A pin 24  61P-Y100A pins D/N and aircraft ground .....</p>	o	n
n. Malfunction is caused by one of the items listed below:		
<p>(1) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)  (A1-F18AC-740-300, WP008 00).</p> <p>(2) Bomb Ejector Rack BRU-33 (A1-F18AC-740-300, WP028 00).</p> <p>Do step s .....</p>	-	-
o. Do substeps below:		
<p>(1) Disconnect 61P-Y112 on BRU-33 centerline jumper cable from 61J-Y112.</p> <p>(2) Does continuity exist between:</p> <p>61P-Y112 pin 6 and 61P-Y100A pin a  61P-Y112 pin 22 and 61P-Y100A pin U  61P-Y112 pin 25 and 61P-Y100A pin D  61P-Y112 pin 30 and 61P-Y100A pin N? .....</p>	p	q
p. Replace BRU-33 Centerline Jumper Cable W56226 (A1-F18AC-740-300, WP028 00 and do step s .....	-	-
q. Do substeps below:		
<p>(1) Remove aircraft centerline pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).</p> <p>(2) Remove connector plate assembly (A1-F18AC-740-300, WP036 00).</p> <p>(3) Does continuity exist between:</p> <p>52P-8065 pin 6 and 61 P-R016A pin 34  52P-8065 pin 72 and 61P-R016A pin 45  52P-8065 pins 25/30 and aircraft ground? .....</p>	k	r
r. Replace Connector Plate Assembly (A1-F18AC-740-300, WP036 00) and do step s .....	-	-
s. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 52P-8065		

Table 5. Arming Units Fail to Release Arming Wire Loop (Continued)

Procedure	No	Yes
(2) 61P-R016A		
(3) 61P-W012C		
(4) 61P-Y100A		
(5) 61P-Y112		
(6) Aircraft Fuselage Centerline Pylon SUU-62( )		
(7) Aircraft Wing Pylon SUU-63( )		
(8) Connector Plate Assembly		
(9) Door 502		
(10) Door 504		
(11) Door 510 .....	-	-



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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TESTING - AIRCRAFT BOMB EJECTOR RACK COUPLE/UNCOUPLE TEST**  
**SUSPENSION AND RELEASE MECHANISMS**

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### Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System And Suspension And Release Mechanisms	
Locator .....	WP007 00

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### Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Couple/Uncouple Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>  All system components installed.		
<b>Related Systems Required</b>  Avionics Cooling System Electrical System Maintenance Status Display and Recording System Mission Computer System Multipurpose Display Group		
<b>Support Equipment Required</b>  None		
<b>Materials Required</b>  None		
<b>NOTE</b>  Component locations are shown in WP007 00.  Test displays are shown in figure 1.  Aircraft must be all gear down and locked and weight on wheels.		
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).		
<div><b>WARNING</b></div> To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.		
a. Make sure electrical power is off (A1-F18AC-LMM-000).		
b. Make sure all weapons are removed from aircraft.		
c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.		



Table 1. Couple/Uncouple Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Guided Missile Launcher LAU-116( ) fuselage stations if installed on aircraft.</p> <p>f. Make sure all explosives are removed from breeches on BRU-41/ BRU-42 if installed on aircraft.</p> <p>g. If gun installed, make sure gun electrical signal safety switch (aft of door 6) is at safe (extended) position.</p> <p>h. If gun installed, make sure gun holdback mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>i. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. PRELIMINARY.</p> <p>a. On Aircraft Guided Missile Launcher LAU-116( ) make sure all launcher hooks are closed and SAFETY RELEASE is rotated clockwise</p> <p>b. Close hooks on all Aircraft Bomb Ejector Racks BRU-32( ).</p> <p>c. Set ground safety handle to LOCKED.</p> <p>d. Close hooks on all Aircraft Bomb Ejector Rack BRU-33( ).</p> <p>e. Set ground safety handle to LOCKED.</p>	<p>SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED</p>	<p>1. With hooks closed, rotate SAFETY RELEASE clockwise.</p> <p>2. If SAFETY RELEASE will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00)</p>

Table 1. Couple/Uncouple Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>f. Open door 14R (A1-F18AC-LMM-010).</p> <p>g. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 24 and FUZING N switch to 1 and T switch to 6 for station(s) under test.</p> <p>h. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.</p> <p>i. Apply electrical power (A1-F18AC-LMM-000).</p> <p>j. On GND PWR control panel assembly, set and hold 1 and 2 switched to B ON for 3 seconds. (A1-F18AC-LMM-000).</p> <p>k. On MC/HYD ISOL control panel assembly, set MC switch to NORM.</p> <p>l. On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.</p>	<p>WPN SYS FAIL indicator is black (not latched).</p> <p>Switches remain on (latched).</p> <p>1. LDDI and RDDI have display and center pushbutton switch on bottom row is labeled MENU.</p>	<p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p> <p>1. If switches unlatch in 10 to 30 seconds, apply external cooling air to aircraft.</p> <p>2. If no switches remain on, do GND PWR Switching System Test (A1-F18AC-420-200, WP006 00).</p> <p>3. If one but not all switches remain on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).</p> <p>1. No display on LDDI: F/A-18A, do table 1 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 1 (A1-F18AC-745-200, WP007 00).</p> <p>2. No display on RDDI: F/A-18A, do table 2 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP007 00).</p>

Table 1. Couple/Uncouple Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>m. On RDDI, press and release MENU pushbutton switch until BIT pushbutton option is displayed</p> <p>n. On RDDI, press BIT pushbutton switch</p> <p>o. Make sure RADAR switch on SNSR pod control box panel assembly is OFF.</p> <p>p. On 161925 AND UP, ALSO 161353 THRU 161924 AFTER AFC 57,RH console, make sure release consent dummy panel is installed.</p> <p>q. Do Initiated Built-In Test smpc (WP009 00).</p> <p>3. RACK TEST.</p> <p>a. Be sure NAV Master Mode is selected.</p>	<p>2. LDDI has cautions and advisory display.</p> <p>Menu display appears on RDDI.</p> <p>BIT control display appears on RDDI.</p> <p>On master arm control panel assembly A/G and A/A lights are off.</p>	<p>3. If STANDBY is displayed: F/A-18A, do table 2 (A1-F18AC-745-200, WP004 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP005 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>1. If A/G light is on, press and release A/G switch. If light does not go off: On F/A-18A, do table 1 (WP010 32). On F/A 18B, do table 2 (WP010 32).</p>

Table 1. Couple/Uncouple Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
b. On RDDI, press and release MENU pushbutton switch until STORES option pushbutton is displayed.	Menu display appears on RDDI with STORES displayed at pushbutton switch 5.	<p>2. If A/A light is on, press and release A/A switch. If light does not go off:  On F/A-18A, do table 1 (WP010 32).  On F/A-18B, do table 2 (WP010 32).</p> <p>Replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A, go to step 3c.</p> <p style="text-align: center;">WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP, go to step 3f.</p>		
c. On RDDI, press and release STORES pushbutton switch.	<p>1. STORES display appears on RDDI.</p> <p>2. On RDDI, 1 82B displayed in wingform for each station with only BRU-32 installed. 2◇82B displayed in wingform for each station with BRU-33 installed.</p>	<p>Replace RDDI: (A1-F18AC-745-300, WP004 00).</p> <p>1. Enter correct weapon code on Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches</p> <p>2. BRU-32:  Station 2, do table 2 (WP010 22).  Station 3, do table 1 (WP010 24).  Station 5, do table 3 (WP010 25).  Station 7, do table 1 (WP010 27).  Station 8, do table 2 (WP010 28).  BRU-33:  Station 2, do table 2 (WP010 22).  Station 3, do table 1 (WP010 24).  Station 5, do table 3 (WP010 25).  Station 7, do table 1 (WP010 27).  Station 8, do table 2 (WP010 28).</p>

Table 1. Couple/Uncouple Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>RACK is not displayed at pushbutton switch 1 if any weapons are selected (boxed) at pushbutton switches 6, 7, 8, 9, or 10.</p>		
d. On RDDI, press and release RACK pushbutton switch.	<p>3. On RDDI, RACK displayed at pushbutton switch 1.</p> <p>1. Box appears around RACK on RDDI.</p> <p>2. TEST is displayed in wingform for each station being tested.</p> <p>3. After 30 seconds TEST removed from wingform and box removed from RACK.</p>	<p>1. On STORES display press and release pushbutton switch for selected (boxed) weapon.</p> <p>2. Transfer display to LDDI and repeat step 3c. If indication is normal replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>3. Do table 1 (WP033 04).</p> <p>1. Transfer display to LDDI and repeat step 3c. If TEST is displayed replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>2. Do table 2 (WP033 04).</p> <p>1. Transfer display to LDDI and repeat step 3c. If TEST is displayed replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>2. Do table 3 (WP033 04).</p> <p>1. If box not removed, do table 2 (WP033 04)</p> <p>2. If TEST not removed, do table 3 (WP033 04).</p> <p>3. If UNCPL displayed, do table 4 (WP033 04).</p> <p>4. If CFAIL displayed, do table 5 (WP033 04).</p>
e. Do shutdown.		

Table 1. Couple/Uncouple Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
f. On RDDI, press and release STORES pushbutton switch.	<p>1. STORES display appears on RDDI.</p> <p>2. On RDDI, 1 82B displayed in wingform for each station with only BRU-32 installed. 2◇82B displayed in wingform for each station with BRU-33 installed.</p>	<p>Replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>1. Enter correct weapon code on Armament Computer CP-1342/AYQ-9(V) ARMAMENT switches.</p> <p>2. BRU-32:            Station 2, do table 2A (WP010 22).            Station 3, do table 1A (WP010 24).            Station 5, do table 3A (WP010 25).            Station 7, do table 1A (WP010 27).            Station 8, do table 2A (WP010 28).            BRU-33:            Station 2, do table 2C (WP010 22).            Station 3, do table 1C (WP010 24).            Station 5, do table 2B (WP010 25).            Station 7, do table 1C (WP010 27).            Station 8, do table 2C (WP010 28).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>RACK is not displayed at pushbutton switch 1 if any weapons are selected (boxed) at pushbutton switches 6, 7, 8, 9, or 10. If no weapon is selected, proceed to step 3h, otherwise proceed to step 3g.</p>		
g. On STORES display press and release pushbutton switch for selected (boxed) weapon	Previously selected weapon is unboxed.	<p>1. Transfer display to LDDI and repeat step 3c. If indication is normal replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>2. Do table 1 (WP033 04).</p>
h. On RDDI, press and release DATA pushbutton switch.	RDDI data freeze display appears with RACK displayed at pushbutton 1.	Replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).
i. On RDDI, press and release RACK pushbutton switch.	1. On RDDI box appears around RACK and display changes to stores wingform.	<p>1. Transfer display to LDDI and repeat step 3c. If indication is normal replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>2. Do table 2 (WP033 04).</p>

Table 1. Couple/Uncouple Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>4. SHUTDOWN.</p> <p>a. On LDDI and RDDI, set power switch to off.</p> <p>b. On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.</p> <p>c. Remove electrical power (A1-F18AC-LMM-000).</p> <p>d. Close door 14R (A1-F18AC-LMM-010).</p>	<p>2. TEST is displayed in wingform for each station being tested.</p> <p>3. After 30 seconds TEST removed from wingform and box removed from RACK.</p>	<p>1. Transfer display to LDDI and repeat step 3c. If TEST is displayed replace right Digital Display Indicator: (A1-F18AC-745-300, WP004 00).</p> <p>2. Do table 3 (WP033 04)</p> <p>1. If box not removed, do table 2 (WP033 04).</p> <p>2. If TEST not removed, do table 3 (WP033 04).</p> <p>3. If UNCPL displayed, do table 4 (WP033 04).</p> <p>4. If CFAIL displayed, do table 5 (WP033 04).</p>

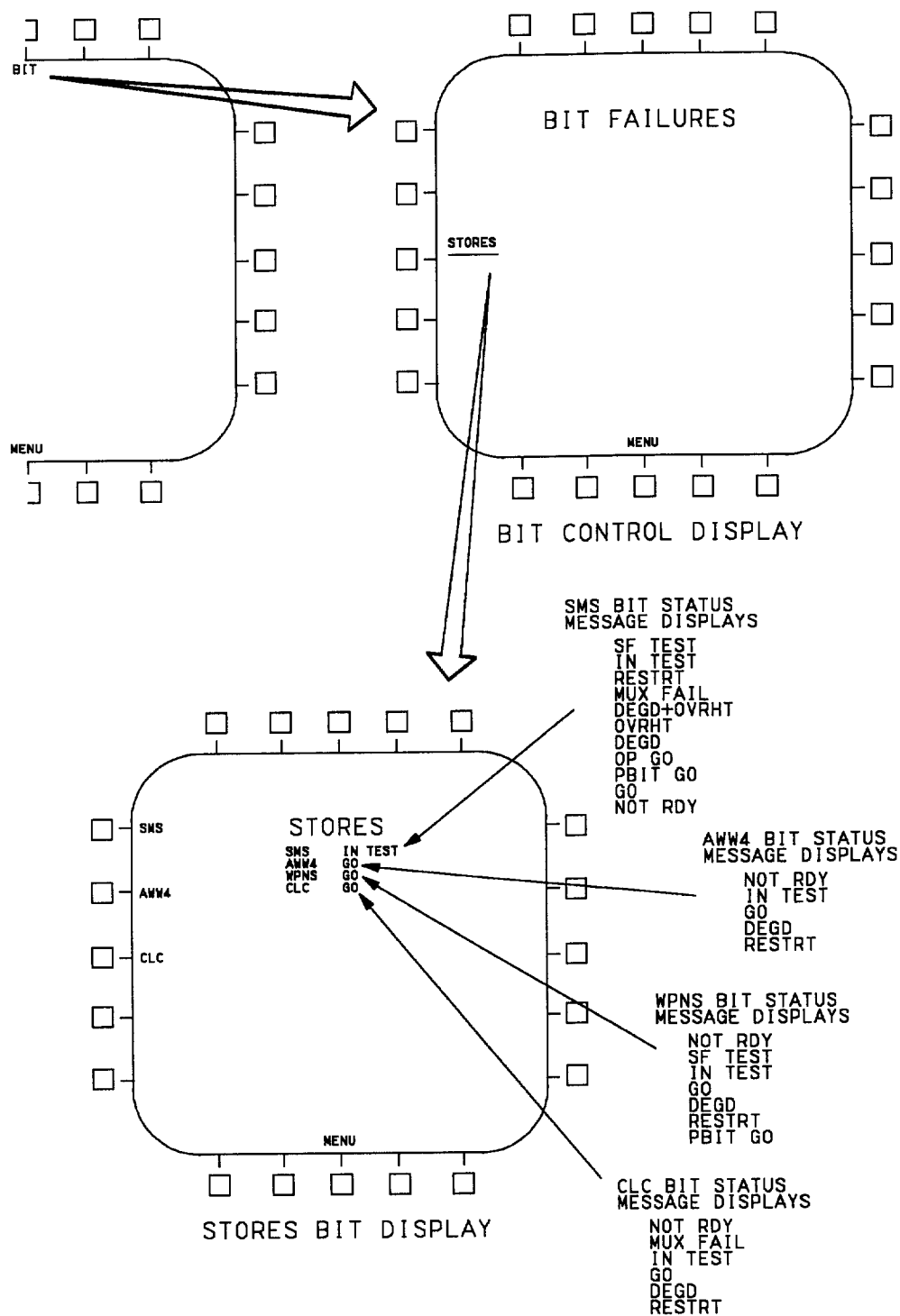
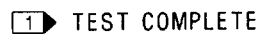
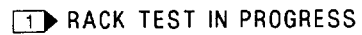
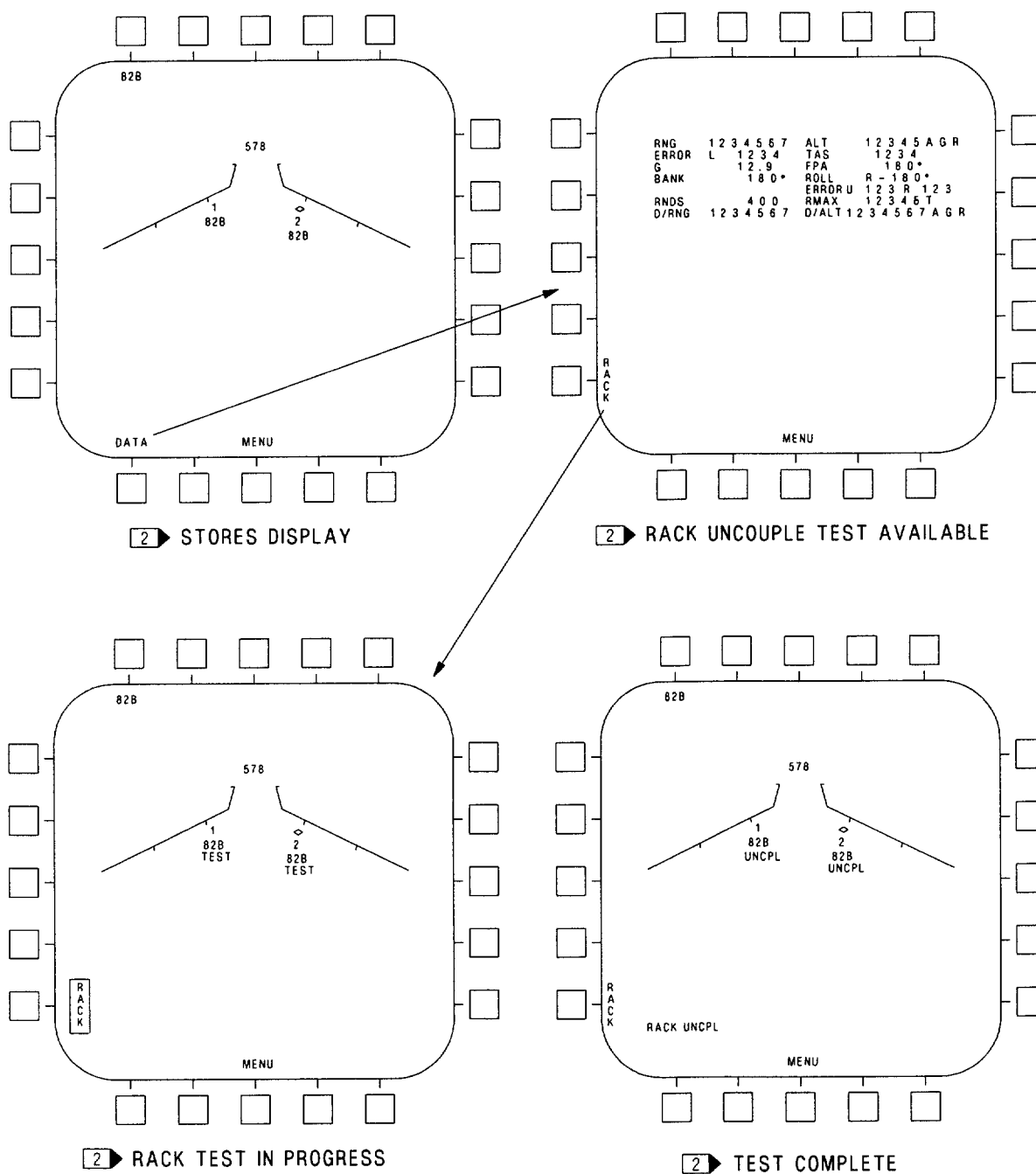


Figure 1. Test Displays (Sheet 1)





33030102



LEGEND

- 1** WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A (A1-F18AC-SCM-000).
- 2** WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C (A1-F18AC-SCM-000).

Figure 1. Test Displays (Sheet 3)

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIRCRAFT BOMB EJECTOR RACK COUPLE/UNCUPLE TEST

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. RACK Not Displayed on DDI

<p align="center"><b>Support Equipment Required</b></p> <p align="center">None</p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00), may be used as an aid when doing this procedure.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2</p>		
Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Do steps 1 through 3c of table 1 (WP033 03)</p> <p>(2) Using unit address 06, memory inspect address for ref code MSG2 WD9 (table 2, WP010 19)</p> <p align="center"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p> <p>(3) Does DATA readout display XXX1XX? .....</p>		
b. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) ....	-	-
c. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) .....	-	-

**Table 2. Can Not Select or Deselect RACK**

<p align="center"><b>Support Equipment Required</b></p> <p align="center">None</p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00), may be used as an aid when doing this procedure.</p> <p>Memory inspect data used in this procedure is provided in WP010 19</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
a. Is troubleshooting being done for box around RACK being present when it should not? . . . .	b	f
b. Do substeps listed below:		
(1) Do steps 1 through 3d of table 1 (WP033 03).		
(2) On RDDI, using unit address 06, memory inspect address for ref code MSG8 WD7 (table 2, WP010 19).		
<b>NOTE</b>		
<p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(3) On RDDI, monitor DATA readout.		

Table 2. Can Not Select or Deselect RACK (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The box is displayed around RACK for approximately 30 seconds after RACK pushbutton switch is pressed. Step d must be done within 30 seconds of pressing RACK pushbutton switch.</p>		
(4) On LDDI, press and hold RACK pushbutton switch.		
(5) On RDDI, is DATA readout XXXXX(4-7)? .....	c	d
c. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00)	-	-
d. Do substeps listed below:		
(1) Release RACK pushbutton switch.		
(2) On RDDI, using unit address 06, memory inspect address for ref code MSG2 WD9 (table 2, WP010 19).		
(3) On RDDI, is DATA readout XXXX4X? .....	e	c
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) .....	-	-
f. Do substeps listed below:		
(1) Do steps 1 through 3d of table 1 (WP033 03).		
(2) On RDDI, using unit address 06, memory inspect address for ref code MSG8 WD7 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(3) On RDDI, is DATA readout XXXXX(0-3)? .....	c	g
g. Do substeps listed below:		
(1) On RDDI, using unit address 06, memory inspect address for ref code MSG2 WD9 (table 2, WP010 19).		
(2) On RDDI, is DATA readout XXXX4X? .....	c	e

**Table 3. RACK Couple/Uncouple TEST Display Incorrect**

<p align="center"><b>Support Equipment Required</b></p> <p align="center">None</p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00), may be used as an aid when doing this procedure.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
a. Is troubleshooting being done for TEST being displayed when it should not? .....	b	e
b. Do substeps listed below: <p>(1) Do steps 1 through 3c of table 1 (WP033 03)</p> <p>(2) On RDDI, press and release RACK pushbutton switch.</p> <p>(3) On LDDI, using unit address 06, memory inspect address for failed station ref code: (table 2, WP010 19)</p> <p>station 2 - MSG4 WD3 station 3 - MSG4 WD5 station 5 - MSG4 WD9 station 7 - MSG4 WD13 station 8 - MSG4 WD15</p>		

**Table 3. RACK Couple/Uncouple TEST Display Incorrect (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(4) On LDDI, is DATA readout XXXXX7? .....	c	d
c. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) .....	-	-
d. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) .....	-	-
e. Do substeps listed below:		
(1) Do steps 1 through 3c of table 1 (WP033 03).		
(2) On LDDI, using unit address 06, memory inspect address for failed station ref code (table 2, WP 010 19)		
station 2 - MSG4 WD3		
station 3 - MSG4 WD5		
station 5 - MSG4 WD9		
station 7 - MSG4 WD13		
station 8 - MSG4 WD15		
(3) On LDDI, is DATA readout XXXXX7? .....	d	c

**Table 4. Aircraft Bomb Ejector Rack BRU-32 Couple/Uncouple Fail**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	



**Table 4. Aircraft Bomb Ejector Rack BRU-32 Couple/Uncouple Fail (Continued)**

NOTE		
<p>Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00), may be used as an aid when doing this procedure.</p> <p>Memory inspect data used in this procedure is provided in WP 010 19</p> <p>For component location, refer to WP 007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Bomb Ejector Rack BRU-32( )</p> <p>Aircraft Fuselage Centerline Pylon SUU-62( )</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Aircraft Wiring Armament Computer CP-1342/AYQ-9(V)</p> <p>Connector Plate Assembly</p> <p>Digital Data Computer No. 2</p> <p>Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)</p> <p>Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
NOTE		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. On BRU-32 (failed station) is ground safety handle linkage coupled (ground safety handle button extended and linkage is not visible through access hole in BRU-32 sideplate)? . . . . .	b	c
b. Do substeps listed below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) On BRU-32 hold ground safety handle to UNLOCKED and work through hole in sideplate of BRU-32 to force crank of override solenoid counterclockwise until ground safety handle button extends and do step c . . . . .	-	-
c. Do substeps listed below:		
(1) Do steps 1 through 3c of table 1 (WP033 03).		

Table 4. Aircraft Bomb Ejector Rack BRU-32 Couple/Uncouple Fail (Continued)

Procedure	No	Yes
(2) Monitor ground safety handle on BRU-32 (failed station) and on RDDI press and release RACK pushbutton switch.		
(3) On BRU-32, did ground safety handle move from LOCKED to UNLOCKED and back to LOCKED within 30 seconds? .....	d	e
d. Do troubleshooting for Ground Safety Handle Does Not Move to UNLOCKED or LOCKED (table 1, WP021 00) and do step ac .....	-	-
e. Memory inspect address for rack lock status by doing substeps listed below:		
(1) On left Digital Display Indicator (LDDI), using unit address 06, memory inspect address for ref code for failed station (table 2, WP010 19):		
station 2 - MSG4 WD3		
station 3 - MSG4 WD5		
station 5 - MSG4 WD9		
station 7 - MSG4 WD13		
station 8 - MSG4 WD15		
<b>NOTE</b>		
DATA readout changes from indicating LOCKED to UNLOCKED and back to LOCKED in 30 seconds.		
(2) On LDDI, monitor DATA readout.		
(3) On right Digital Display Indicator (RDDI), press and release RACK pushbutton switch.		
<b>NOTE</b>		
WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.		
WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
(4) On LDDI, did DATA readout change from XXX(2 or 6)XX to XXX(5 or 1)XX and back to XXX(2 or 6)XX within 30 seconds? .....	f	z
f. Is failed station - station 5? .....	g	n

Table 4. Aircraft Bomb Ejector Rack BRU-32 Couple/Uncouple Fail (Continued)

Procedure	No	Yes
g. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On aircraft wing pylon (failed station), disconnect 61P-W097A from J1 on BRU-32.		
(3) Connect jumper wire between 61P-W097A pin A and aircraft ground.		
(4) Connect jumper wire between 61P-W097A pin S and aircraft ground.		
(5) Turn on electrical power (A1-F18AC-LMM-000).		
(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(7) On LDDI and RDDI, set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.		
<b>NOTE</b>		
Before doing substep 8 allow 240 seconds for SMS to complete power up BIT.		
(8) Using unit address 06, memory inspect address for ref code for failed station (table 2, WP010 19)		
station 2 - MSG4 WD3		
station 3 - MSG4 WD5		
station 7 - MSG4 WD13		
station 8 - MSG4 WD15		
(9) On RDDI, is DATA readout XXX(2 or 6)XX? .....	h	k
h. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On SUU-63 (failed station), open door 504 (A1-F18AC-LMM-010).		
(3) In door 504, disconnect 61P-W012A from J1 on encoder-decoder.		
(4) Does continuity exist between 61P-W012A pin p and 61P-W097A pin S? .....	i	j
i. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP 034 00). Do step ac ....	-	-
j. Malfunction is caused by one of the items below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		

Table 4. Aircraft Bomb Ejector Rack BRU-32 Couple/Uncouple Fail (Continued)

Procedure	No	Yes
<p>(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>Do step ac .....</p> <p>k. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove jumper wire from 61P-W097A pin S.</p> <p>(3) Connect jumper wire between 61P-W097A pin T and aircraft ground.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On LDDI and RDDI, set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT control for best display.</p>	-	-
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Before doing substep 7 allow 240 seconds for SMS to complete power up BIT.</p>		
<p>(7) Using unit address 06, memory inspect address for ref code for failed station (table 2, WP010 19):</p> <p style="padding-left: 40px;">station 2 - MSG4 WD3 station 3 - MSG4 WD5 station 7 - MSG4 WD 13 station 8 - MSG4 WD 15</p>		
<p>(8) On RDDI, is DATA readout XXX(1 or 4)XX? .....</p>	1	m
<p>l. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) On SUU-63 (failed station), open door 504 (A1-F18AC-LMM-010).</p> <p>(3) In door 504, disconnect 61P-W012A from J1 on encoder-decoder.</p> <p>(4) Does continuity exist between 61P-W012A pin h and 61P-W097A pin T? .....</p>	i	j
<p>m. Replace Aircraft Bomb Ejector Rack BRU-32( ) (A1-F18AC-740-300, WP031 00) and do step ac .....</p>	-	-

**Table 4. Aircraft Bomb Ejector Rack BRU-32 Couple/Uncouple Fail (Continued)**

Procedure	No	Yes
<p>n. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) On aircraft fuselage centerline pylon, open door 509 (A1-F18AC-LMM-010).</p> <p>(3) In door 509, disconnect 61P-Z105A from J1 on BRU-32.</p> <p>(4) Connect jumper wire between 61P-Z105A pin A and aircraft ground.</p> <p>(5) Connect jumper wire between 61P-Z105A pin S and aircraft ground.</p> <p>(6) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(7) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(8) On LDDI and RDDI, set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.</p> <p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Before doing substep 9 allow 240 seconds for SMS to complete power up BIT.</p> <p>(9) Using unit address 06, memory inspect address for ref code MSG4 WD9 (table 2, WP010 19).</p> <p>(10) On RDDI, does DATA readout XXX(2 or 6)XX? .....</p>		
<p>o. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.</p> <p>(3) Does continuity exist between 61P-R016A pin 79 and 61P-Z105A pin S? .....</p>	o  p	v  u
<p>p. Do substeps listed below:</p> <p>(1) On aircraft fuselage centerline-pylon open door 510 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-2167 from connector plate assembly.</p> <p>(3) Does continuity exist between 61P-2167 pin S and 61P-Z105A pin S?</p>	q	r
<p>q. Replace Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP 036 00) and do step ac .....</p>	-	-

Table 4. Aircraft Bomb Ejector Rack BRU-32 Couple/Uncouple Fail (Continued)

Procedure	No	Yes
r. Do substeps listed below:		
(1) Remove Aircraft Fuselage Centerline Pylon SUU-62 (A1-F18AC-740-300, WP036 00).		
(2) Remove Connector Plate Assembly (A1-F18AC-740-300, WP036 00).		
(3) Does continuity exist between 61P-8167 pin S and 61P-R016A pin 79? .....	s	t
s. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ac .....	-	-
t. Replace Connector Plate Assembly (A1-F18AC-740-300, WP036 00) and do step ac .....	-	-
u. Malfunction is caused by one of the items below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).		
Do step ac	-	-
v. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove jumper wire from 61P-Z105A pin S.		
(3) Connect jumper wire between 61P-Z105A pin T and aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On LDDI and RDDI, set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.		
<b>NOTE</b>		
Before doing substep 7 allow 240 seconds for SMS to complete power up BIT.		
(7) Using unit address 06, memory inspect address for ref code MSG4 WD9 (table 2, WP010 19).		
(8) On RDDI, does DATA readout display XXX(1 or 4)XX? .....	w	m

**Table 4. Aircraft Bomb Ejector Rack BRU-32 Couple/Uncouple Fail (Continued)**

Procedure	No	Yes
w. Do substeps listed below:		
(1) Turn off electrical power (A1-F18C-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(3) Does continuity exist between 61P-R016A pin 78 and 61P-Z105A pin T? .....	x	u
x. Do substeps listed below:		
(1) On aircraft fuselage centerline pylon, open door 510 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-2167 from connector plate assembly.		
(3) Does continuity exist between 61P-2167 pin T and 61P-Z105A pin T? .....	q	y
y. Do substeps listed below:		
(1) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).		
(2) Remove Connector Plate Assembly (A1-F18AC-740-300, WP 036 00).		
(3) Does continuity exist between 61P-R016A pin 78 and 61P-8167 pin T? .....	s	t
z. Do substeps listed below:		
(1) Using unit address 06, memory inspect address for ref code MSG4 WD20 (table 2, WP010 19).		
(2) Does DATA readout display XXXX00?	aa	ab
aa. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step ac .....	-	-
ab. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step ac ...	-	-
ac. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-W097A		
(2) 61P-W012A		
(3) 61P-Z105A		
(4) 61P-R016A		
(5) 61P-Z167		

**Table 4. Aircraft Bomb Ejector Rack BRU-32 Couple/Uncouple Fail (Continued)**

Procedure	No	Yes
(6) Aircraft Fuselage Centerline Pylon SUU-62( )		
(7) Connector Plate Assembly		
(8) Doors 14R, 504, 509, 510		
(9) Jumper wires 61P-W097A, 61P-Z105A .....	-	-

**Table 5. Aircraft Bomb Ejector Rack BRU-33( ) Carriage Fail**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Launcher/Rack Lock/Unlock Schematic (A1-F18AC-740-500, WP020 00), may be used as an aid when doing this procedure.	
Memory inspect data used in this procedure is provided in WP010 19.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Bomb Ejector Rack BRU-33( )	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
Armament Computer CP-1342/AYQ-9(V)	
BRU-33( ) Wing Pylon Jumper Cable W56232	
BRU-33( ) Centerline Pylon Jumper Cable W56226	
Connector Plate Assembly	
Digital Data Computer No. 2	
Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V)	
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	



Table 5. Aircraft Bomb Ejector Rack BRU-33( ) Carriage Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Do steps 1 through 3c of table 1 (WP033 03).		
(2) Monitor ground safety handle on BRU-33 (failed station) and, on RDDI, press and release RACK pushbutton switch.		
(3) On BRU-33, did ground safety handle move from LOCKED to UNLOCKED and back to LOCKED within 30 seconds? .....	b	c
b. Do troubleshooting for Ground Safety Handle Does Not Move to UNLOCKED or LOCKED (table 1, WP033 02) and do step ad .....	-	-
c. Memory inspect address for rack lock status by doing substeps listed below:		
(1) On left Digital Display Indicator (LDDI), using unit address 06, memory inspect address for ref code for failed station (table 2, WP010 19):		
station 2 - MSG4 WD3		
station 3 - MSG4 WD5		
station 5 - MSG4 WD9		
station 7 - MSG4 WD13		
station 8 - MSG4 WD15		
<p style="text-align: center;"><b>NOTE</b></p> <p>DATA readout changes from indicating LOCKED to UNLOCKED and back to LOCKED in 30 seconds.</p>		
(2) On LDDI, monitor DATA readout.		
(3) On right Digital Display Indicator (RDDI), press and release RACK pushbutton switch.		

Table 5. Aircraft Bomb Ejector Rack BRU-33( ) Carriage Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(4) On LDDI, did DATA readout change from XXXX6X to XXXX0X and back to XXXX6X within 30 seconds? .....	d	aa
d. Is failed station - station 5? .....	e	o
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On aircraft wing pylon (failed station), disconnect 61P-Y100A from J1 on BRU-33.		
(3) Connect jumper wires between:		
61P-Y100A pin A and aircraft ground		
61P-Y100A pin C and aircraft ground		
61P-Y100A pin E and aircraft ground		
61P-Y100A pin S and aircraft ground		
61P-Y100A pin Y and aircraft ground		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On LDDI and RDDI, set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.		

Table 5. Aircraft Bomb Ejector Rack BRU-33( ) Carriage Fail (Continued)

Procedure	No	Yes
<b>NOTE</b>		
Before doing substep 7 allow 240 seconds for SMS to complete power up BIT.		
(7) Using unit address 06, memory inspect address for ref code for failed station (table 2, WP010 19)		
station 2 - MSG4 WD3		
station 3 - MSG4 WD5		
station 7 - MSG4 WD13		
station 8 - MSG4 WD15		
(8) On RDDI, is DATA readout XXXX6X? .....	f	k
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On SUU-63 (failed station), open door 504 (A1-F18AC-LMM-010).		
(3) In door 504, disconnect 61P-W012C from J3 on encoder-decoder.		
(4) Does continuity exist between:		
61P-Y100A pin E and 61P-W012C pin FF		
61P-Y100A pin S and 61P-W012C pin EE? .....	g	j
g. Do substeps below:		
(1) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(2) Disconnect 61P-YI12 from 61J-W112 on pylon stores electrical disconnect panel.		
(3) Does continuity exist between:		
61P-Y100A pin E and 61P-Y112 pin 18		
61P-Y100A pin S and 61P-Y112 pin 14? .....	h	i
h. Replace BRU-33( ) Wing Pylon Jumper Cable W56232 (A1-F18AC-740-300, WP028 00) and do step ad .....	-	-
i. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP 034 00). Do step ad	-	-
j. Malfunction is caused by one of the items below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		

Table 5. Aircraft Bomb Ejector Rack BRU-33( ) Carriage Fail (Continued)

Procedure	No	Yes
<p>(2) Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>Do step ad .....</p> <p>k. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove jumper wires from 61P-Y100A pins E 61P-Y100A pin S.</p> <p>(3) Connect jumper wires between 61P-Y100A pins F and T to aircraft ground.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On LDDI and RDDI, set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT control for best display.</p>	-	-
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Before doing substep 7 allow 240 seconds for SMS to complete power up BIT.</p>		
<p>(7) Using unit address 06, memory inspect address for ref code for failed station (table 2, WP010 19):</p> <p style="padding-left: 40px;">station 2 - MSG4 WD3 station 3 - MSG4 WD5 station 7 - MSG4 WD13 station 8 - MSG4 WD 15</p>		
<p>(8) On RDDI, is DATA readout XXXX0X? .....</p>	1	n
<p>l. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) On SUU-63 (failed station), open door 504 (A1-F18AC-LMM-010).</p> <p>(3) In door 504, disconnect 61P-W012C from J3 on encoder-decoder.</p> <p>(4) Does continuity exist between:</p> <p style="padding-left: 40px;">61P-Y100A pin F and 61P-W012C pin DD 61P-Y100A pin T and 61P-W012C pin t? .....</p>	m	j

Table 5. Aircraft Bomb Ejector Rack BRU-33( ) Carriage Fail (Continued)

Procedure	No	Yes
<p>m. Do substeps listed below:</p> <p>(1) Open door 502 on wing pylon (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Y112 from 61J-W1112 on pylon stores electrical disconnect panel.</p> <p>(3) Does continuity exist between:</p> <p style="padding-left: 40px;">61P-Y100A pin F and 61P-Y112 pin 4</p> <p style="padding-left: 40px;">61P-Y100A pin T and 61P-Y112 pin 3? .....</p>	h	i
n. Replace Aircraft Bomb Ejector Rack BRU-33( ) (A1-F18AC-740-300, WP028 00) and do step ad	-	-
<p>o. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) On aircraft fuselage centerline pylon, disconnect 61P-Y100A from J1 on BRU-33.</p> <p>(3) Connect jumper wires between:</p> <p style="padding-left: 40px;">61P-Y100A pin A and aircraft ground</p> <p style="padding-left: 40px;">61P-Y100A pin C and aircraft ground</p> <p style="padding-left: 40px;">61P-Y100A pin E and aircraft ground</p> <p style="padding-left: 40px;">61P-Y100A pin S and aircraft ground</p> <p style="padding-left: 40px;">61P-Y100A pin Y and aircraft ground</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) On LDDI and RDDI, set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.</p>		
<b>NOTE</b>		
Before doing substep 7 allow 240 seconds for SMS to complete power up BIT.		
<p>(7) Using unit address 06, memory inspect address for ref code MSG4 WD9 (table 2, WP010 19).</p> <p>(8) On RDDI, does DATA readout XXXX6X?</p>	p	w
<p>p. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p>		

Table 5. Aircraft Bomb Ejector Rack BRU-33( ) Carriage Fail (Continued)

Procedure	No	Yes
<p>(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.</p> <p>(3) Does continuity exist between:</p> <p>61P-R016A pin 67 and 61P-Y100A pin E  61P-R016A pin 77 and 61P-Y100A pin S? .....</p>	q	v
q. Do substeps listed below:		
<p>(1) On aircraft fuselage centerline pylon, open door 510 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-Y112 from 52J-2065 on connector plate assembly.</p> <p>(3) Does continuity exist between:</p> <p>61P-Y112 pin 18 and 61P-Y100A pin E  61P-Y112 pin 14 and 61P-Y100A pin S? .....</p>	s	r
r. Do substeps listed below:		
<p>(1) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).</p> <p>(2) Remove Connector Plate Assembly (A1-F18AC-740-300, WP036 00).</p> <p>(3) Does continuity exist between:</p> <p>52P-8065 pin 18 and 61P-R016A pin 67  52P-8065 pin 14 and 61P-R016A pin 77? .....</p>	u	t
s. Replace BRU-33 Centerline Jumper Cable W56226 (A1-F18AC-740-300, WP 028 00) and do step ad .....	-	-
t. Replace Connector Plate Assembly (A1-F18AC-740-300, WP036 00) and do step ad .....	-	-
u. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ad .....	-	-
v. Malfunction is caused by one of the items below:		
<p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>(2) Right Fuselage Command Signal Encoder-Decoder KY-854/AYQ-9(V) (A1-F18AC-740-300, WP008 00).</p> <p>Do step ad .....</p>	-	-
w. Do substeps listed below:		
<p>(1) Turn off electrical power (A1-F18AC-LMM-000)</p>		

**Table 5. Aircraft Bomb Ejector Rack BRU-33( ) Carriage Fail (Continued)**

Procedure	No	Yes
(2) Remove jumper wires from 61P-Y100A pins E and S. (3) Connect jumper wires between 61P-Y100A pins F and T to aircraft ground. (4) Turn on electrical power (A1-F18AC-LMM-000). (5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. (6) On LDDI and RDDI, set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.		
<b>NOTE</b>		
Before doing substep (7) allow 240 seconds for SMS to complete power up BIT.		
(7) Using unit address 06, memory inspect address for ref code MSG4 WD9 (table 2, WP010 19).		
(8) On RDDI, does DATA readout display XXXXOX? .....	x	n
x. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In right main landing gear door, disconnect 61P-R016A from J1 on encoder-decoder.		
(3) Does continuity exist between:		
61P-R016A pin 56 and 61P-Y100A pin F		
61P-R016A pin 58 and 61P-Y100A pin T? .....	y	v
y. Do substeps listed below:		
(1) On aircraft fuselage centerline pylon, open door 510 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-Y112 from 52J-2065 on connector plate assembly.		
(3) Does continuity exist between:		
61P-Y112 pin 4 and 61P-Y100A pin F		
61P-Y112 pin 3 and 61P-Y100A pin T? .....	s	z
z. Do substeps listed below:		
(1) Remove Aircraft Fuselage Centerline Pylon SUU-62( ) (A1-F18AC-740-300, WP036 00).		

Table 5. Aircraft Bomb Ejector Rack BRU-33( ) Carriage Fail (Continued)

Procedure	No	Yes
(2) Remove Connector Plate Assembly (A1-F18AC-740-300, WP 036 00).		
(3) Does continuity exist between:		
52P-8065 pin 4 and 61P-R016A pin 56	u	t
52P-8065 pin 3 and 61P-R016A pin 58? .....		
aa. Do substeps listed below:		
(1) Using unit address 06, memory inspect address for ref code MSG4 WD20 (table 2, WP010 19).		
(2) Does DATA readout display XXXX00? .....	ab	ac
ab. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and step ad .....	-	-
ac. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step ad ...	-	-
ad. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 52P-8065		
(2) 61P-R016A		
(3) 61P-W012C		
(4) 61P-Y100A		
(5) 61P-Y112		
(6) Aircraft Centerline Pylon SUU-62( )		
(7) Aircraft Wing Pylon SUU-63( )		
(8) Connector Plate Assembly		
(9) Doors 14R, 502, 504, 510		
(10) Jumper wires 61P-Y100A .....	-	-



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AIRCRAFT BOMB EJECTOR RACK BRU-33( ) ROCKET FIRING CIRCUIT TEST

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Initiated Built-In Test .....	WP009 00
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0583)	1 Feb 01	-

Table 1. Rocket Firing Circuit Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>		
All system components installed.		
<b>Related Systems Required</b>		
Avionics Cooling System		
Electrical System		
Maintenance Status Display and Recording System		
Mission Computer System		
Multipurpose Display Group		
<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
AN/AWM-54	Aircraft Firing Circuit Test Set	
178AS300	W2 Adapter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
Component locations are shown in WP007 00. Test displays are shown on figure 1 and test equipment hookup is shown on figure 2.		
For the remainder of this test, test set refers to TS-3021/AWM-54. Test set and W2 adapter are part of aircraft firing circuit test set AN/AWM-54.		
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).		
<div>WARNING</div>		
To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.		
a. Make sure electrical power is off (A1-F18AC-LMM-000).		
b. Make sure all weapons are re-moved from aircraft.		

Table 1. Rocket Firing Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Guided Missile Launcher LAU-116( ) fuselage stations if installed on aircraft.</p> <p>f. Make sure all Aircraft Guided Missile Launcher LAU-116( ) hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p> <p>g. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER) BRU-41 and BRU-42 if installed on aircraft.</p> <p>h. If gun is installed, make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>i. If gun is installed, make sure gun hold-back mechanism handle is set to cleared; gun holdback handle indicator (extended).</p> <p>j. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. Remove forward and aft chamber assemblies from breeches on Aircraft Bomb Ejector Racks BRU-33( ).</p>	<p>SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED.</p>	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If knob will not rotate, replace Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>

Table 1. Rocket Firing Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
b. Remove test set and W1 cable from Aircraft Firing Circuit Test Set AN/AWM-54 (fig 2).		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">When a failed condition is indicated during test set self test, refer to NAVAIR 16-30AWM54-1 for troubleshooting. NAVAIR 16-30AWM54-1 is contained in aircraft firing circuit test set AN/AWM-54.</p>		
c. Connect W1P1 of W1 cable to test set, W1P2 of W1 to W2 adapter, and do self test.		
d. Loosen screws and place covers in stowed position and secure with screws on Aircraft Bomb Ejector Rack BRU-33( ).		
e. Connect harness assy connectors to Aircraft Bomb Ejector Rack BRU-33( ).		
f. Connect W2 adapter to right rocket connector of first station in release sequence.		
3. PRELIMINARY.		
a. Close hooks on all Aircraft Bomb Ejector Racks BRU-33( ) and set ground safety handle to LOCKED.		
b. Open door 14R (A1-F18AC-LMM-010).		
c. On Armament Computer CP-1342/AYQ-9(V) set ARMAMENT switches to 76, and FUZING switches to 0, for station under test.		
d. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.	WPN SYS FAIL indicator is black (not latched).	If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).

Table 1. Rocket Firing Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
e. Connect proximity switch control (A1-F18AC-LMM-000).  f. Apply electrical power (A1-F18AC-LMM-000).  g. Connect ground intercommunications (A1-F18AC-LMM-000).		
<div style="text-align: center; margin: 10px auto; width: 150px;">NOTE</div> <p>After completion of Initiated Built-In Test (BIT), leave 1, 2 and 3 switches at ON and continue with this test.</p>		
h. Do Initiated Built-In Test (WP009 00).		
4. PROCEDURE.		
a. On LDDI and RDDI, press and release Menu pushbutton switch until STORES pushbutton option is displayed.	Menu display appears on LDDI and RDDI.	Replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
b. On LDDI, press STORES pushbutton switch.	Stores display appears on LDDI.	Replace left Digital Display Indicator IP- 1317( ) (A1-F18AC-745-300, WP004 00).
c. On proximity switch control, set MAIN GEAR, and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
d. On master arm control panel assembly, press and release A/G switch.	A/G indicator light comes on and stays on throughout test.	On F/A-18A, do table 1, (WP010 34). On F/A-18B, do table 2, (WP010 34).
e. On RDDI, press STORES pushbutton switch.	Stores display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).

Table 1. Rocket Firing Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
f. On RDDI, press 10S pushbutton switch.	Selection indicated by box around 10S with X through 10S. On wing-form station under test, box appears around weapon type.	Enter correct store code on Armament Computer CP-1342/AYQ-9(V).
g. On RDDI, press MAN pushbutton switch.	Box around MAN on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
h. On RDDI, press SGL pushbutton switch.	Box around SGL on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-746-300, WP004 00).
i. On master arm control panel assembly, set MASTER switch to ARM.	SAFE displayed on RDDI.	Do table 2 (WP010 17).
j. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged. 2. ARM is displayed on RDDI. 3. X removed and RDY displayed under 10S on RDDI.	Do table 1 (WP012 00). Do table 1 (WP010 17). Do table 3 (WP035 00).
k. On test set, set FCTN selector switch to F/C.		
<p style="text-align: center;"><b>NOTE</b></p> <p>If any step in the procedure below fails, do test set self test before doing troubleshooting. W2 rocket adapter must be disconnected from rocket connector to do self test.</p>		
l. On test set, press and hold TEST switch.		
<p style="text-align: center;"><b>NOTE</b></p> <p>The weapon count number for station under test will decrease each time A/G weapon release switch is pressed and released. A blank appears when the weapon count reaches zero.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 10A: When troubleshooting, maintenance codes are displayed on Digital Display Indicator ID-2150/ASM-612 (nose wheelwell DDI, left side). Read and record maintenance codes.</p>		

Table 1. Rocket Firing Circuit Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 15C AND UP: When troubleshooting, maintenance codes are displayed on the cockpit Digital Display Indicator ID-1317( ) (LDDI and RDDI) in hexadecimal and on the Digital Display Indicator ID-2150/ASM (nose wheelwell DDI, left side) in decimal. Read and record maintenance codes displayed in the cockpit only.</p>		
m. On aircraft controller grip assembly, press and release A/G weapon release switch four times.	GO light on test set comes on, and number of rockets decreases by four, a weapon count number of 4 appears.	1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black. If not, read and record maintenance codes in appropriate location. If maintenance code 072, 073, 076, 077, 078, or 085 is displayed, do table 1 (WP010 00).  2. Do table 1 (WP035 00).
n. On test set, release TEST switch.	GO light on test set goes off.	Replace test set.
o. On test set, set FCTN switch to S/V.		
p. On test set, press and release TEST switch.	GO light on test set comes on and remains on until TEST switch is released.	Do table 3 (WP035 00).
<p align="center"><b>NOTE</b></p> <p>Aircraft Bomb Ejector Rack BRU-33( ) rocket firing sequence, from selected station:</p> <p>Single station loaded; right launcher fires then left launcher fires.</p> <p>Multiple stations loaded; all right launchers fire in boxed sequence, then all left launchers fire in boxed sequence.</p>		
q. Disconnect W2 adapter and connect to next rocket connector in firing sequence, then repeat steps 4k through 4p.	Same as steps 4k through 4p.	Same as steps 4k through 4p.
r. Repeat steps 4k through 4q on remaining Aircraft Bomb Ejector Racks BRU-33( ) or do SHUTDOWN.	Same as steps 4k through 4q	Same as steps 4k through 4q

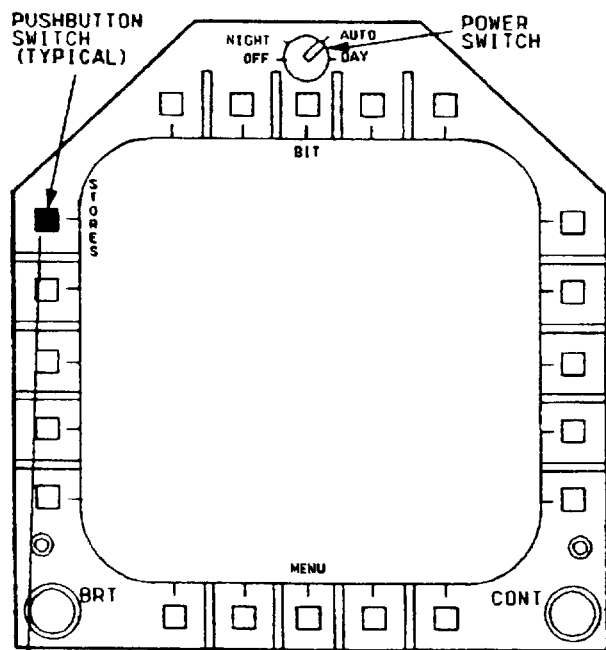
**Table 1. Rocket Firing Circuit Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>5. SHUTDOWN.</p> <p>a. On master arm control panel assembly, set MASTER switch to SAFE.</p> <p>b. On master arm control panel assembly, press and release A/G switch.</p> <p>c. On RDDI, press and release 10S pushbutton switch.</p> <p>d. On proximity switch control, set MAIN GEAR, and NOSE GEAR switches and GEAR UP LOCK switch to NORM.</p> <p>e. On LDDI and RDDI, set power switch to OFF.</p> <p>f. On GND PWR control panel assembly, set 3, 2 and 1 switches to AUTO.</p> <p>g. Remove electrical power (A1-F18AC-LMM-000).</p> <p>h. Disconnect proximity switch control (A1-F18AC-LMM-000).</p> <p>i. Disconnect ground intercommunications (A1-F18AC-LMM-000)</p> <p>j. Close door 14R (A1-F18AC-LMM-010).</p> <p>k. Install chamber assemblies in breech of Aircraft Bomb Ejector Racks BRU-33( ).</p> <p>l. Disconnect W2 adapter from rocket connector.</p>	<p>1. SAFE displayed on RDDI.</p> <p>2. ARMAMENT OVERRIDE switch disengages.</p> <p>A/G indicator light goes off.</p> <p>Rack hooks remain closed and ground safety handle remains LOCKED.</p>	<p>Do table 2 (WP010 17).</p> <p>Do table 3 (WP010 17).</p> <p>On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).</p> <p>Do table 1 (WP033 02).</p>



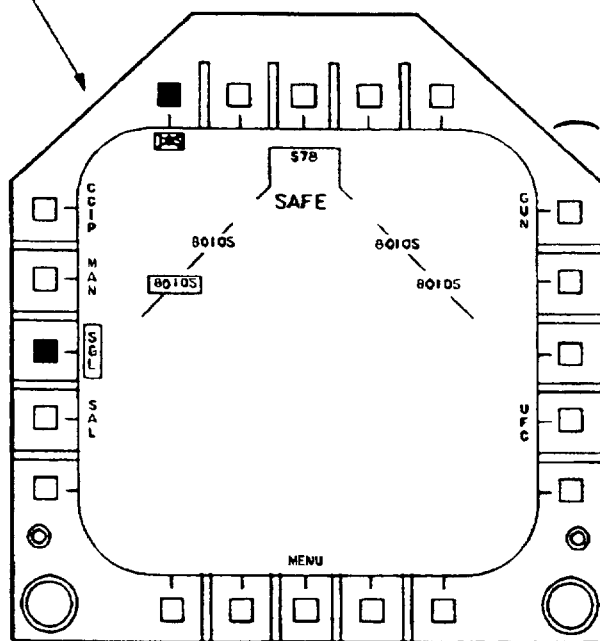
**Table 1. Rocket Firing Circuit Test (Continued)**

<b>Procedure</b>	<b>Normal Indication</b>	<b>Remedy for Abnormal Indication</b>
<p>m. Disconnect W1 cable from W2 adapter and test set and stow.</p> <p>n. Disconnect harness assy from Aircraft Bomb Ejector Racks BRU-33( ).</p> <p>o. Remove cover from stowed position and secure with screws on Aircraft Bomb Ejector Rack BRU-33( ).</p>		



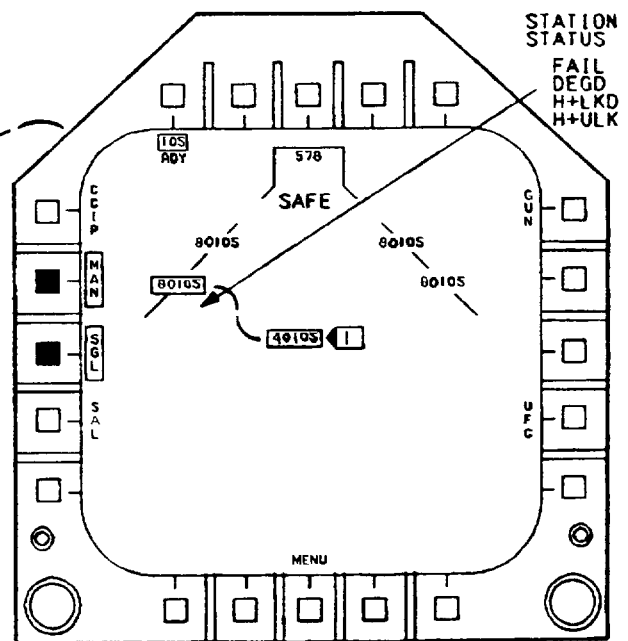
MENU DISPLAY

LEGEND



2 STORES DISPLAY

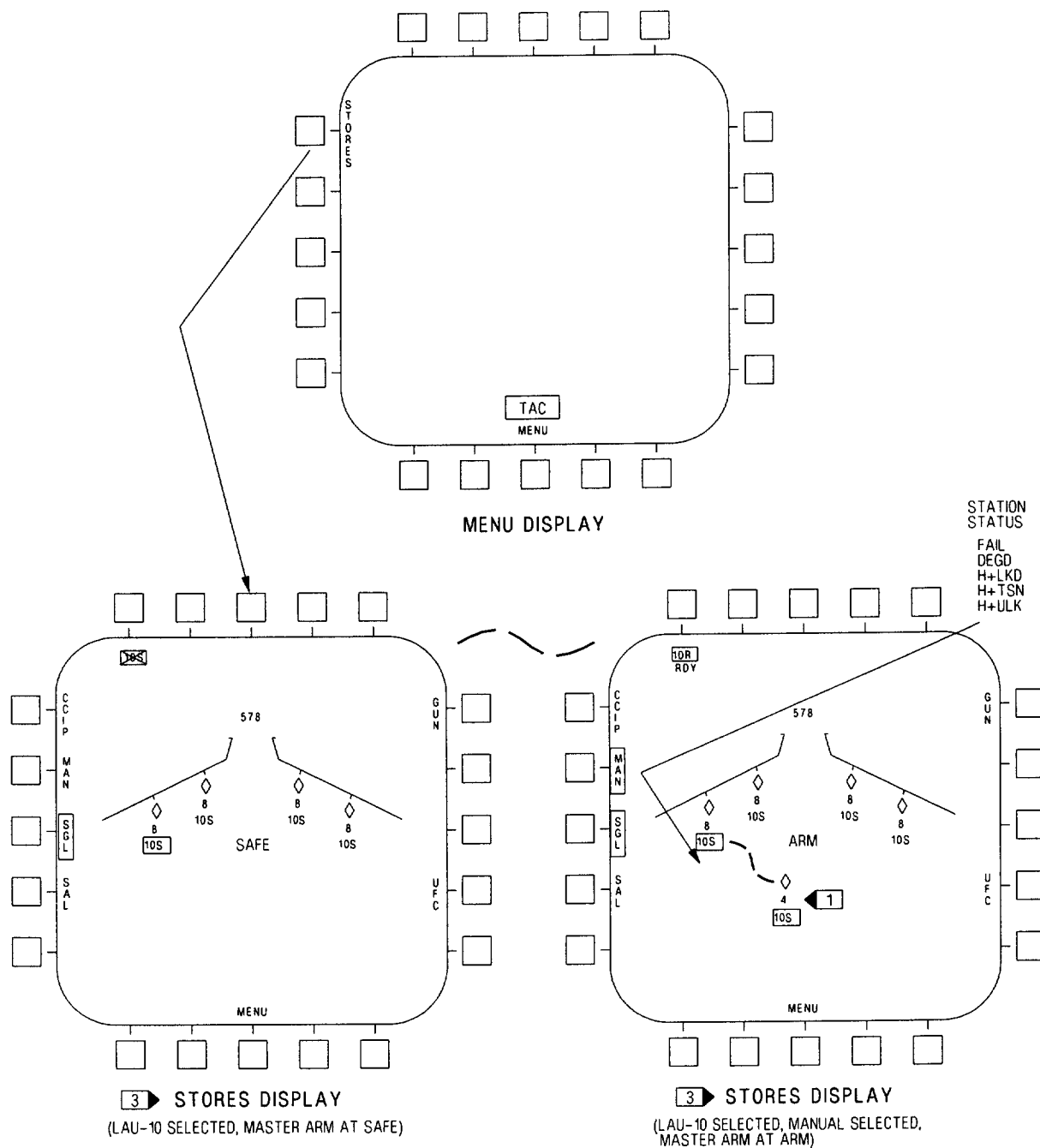
(SINGLE LAU-10 SELECTED, MASTER ARM AT SAFE)



2 STORES DISPLAY

(SINGLE LAU-10 SELECTED, MANUAL SELECTED, MASTER ARM AT ARM)

Figure 1. Test Displays (Sheet 1)



STATION  
STATUS  
FAIL  
DEGD  
H+LKD  
H+TSN  
H+ULK

### LEGEND

- 1** FOUR ROCKETS FIRED FROM LAUNCHER ON SELECTED STATION.
- 2** WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A (A1-F18AC-SCM-000).
- 3** WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C (A1-F18AC-SCM-000).

Figure 1 Test Displays (Sheet 2)

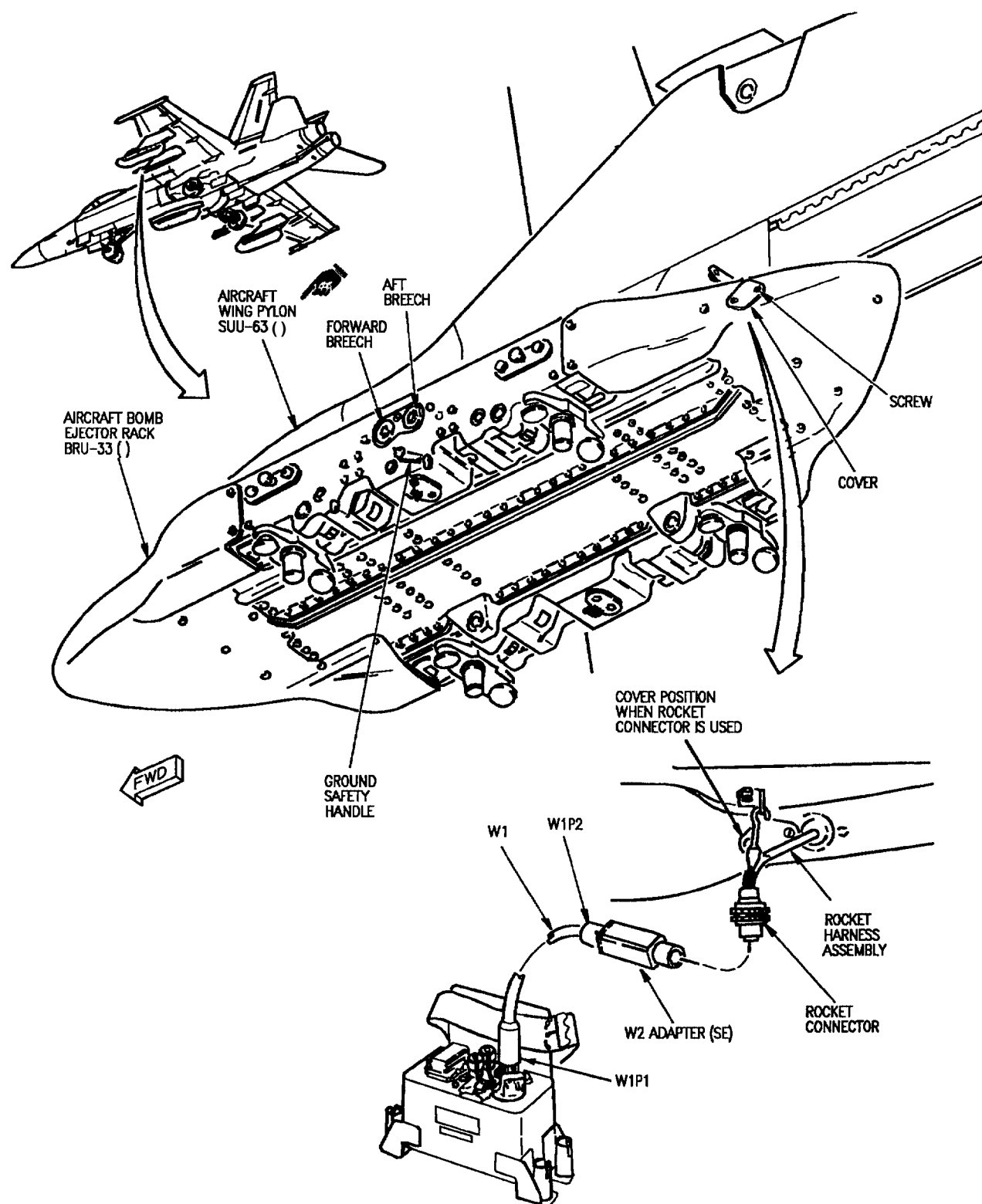


Figure 2 Test Equipment Hookup

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIRCRAFT BOMB EJECTOR RACK BRU-33( ) ROCKET FIRING CIRCUIT TEST

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**Table 1. GO Light On Test Set Does Not Come On, Rocket Firing –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Applicable Weapon Station 2, 3, 7, 8 Rocket Schematic (A1-F18AC-740-500, WP070 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	

**Table 1. GO Light On Test Set Does Not Come On, Rocket Firing –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-33( ) Aircraft Wing Pylon SUU-63( ) BRU-33 Wing Pylon Jumper Cable W56232 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 61P-Y100A from Aircraft Bomb Ejector Rack BRU-33( ).</li> <li>(4) Connect a ground at 61P-Y100A pins A, C and Y.</li> <li>(5) Open door 14R (A1-F18AC-LMM-010).</li> <li>(6) On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 76 and FUZING switches to 0 for stations being tested.</li> </ol> <div style="text-align: center;">  <p>WARNING</p> </div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> <ol style="list-style-type: none"> <li>(7) Connect proximity switch control (A1-F18AC-LMM-000).</li> </ol>		

**Table 1. GO Light On Test Set Does Not Come On, Rocket Firing –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(8) Turn on electrical power (A1-F18AC-LMM-000).		
<b>NOTE</b>		
After 3 switch is set to B ON, allow Stores Management System 3 minutes to complete initial Bit.		
(9) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(10) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.		
(11) On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(12) On master arm control panel assembly, press and release A/G switch.		
(13) On RDDI, press and release MENU pushbutton switch until STORES option is displayed.		
(14) On RDDI, press STORES, 10S, MAN and SGL pushbutton switches		
(15) On master arm control panel assembly, set MASTER switch to ARM.		
(16) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(17) On aircraft control grip assembly, press and release A/G weapon release switch. Does 28vdc exist at 61P-Y100A pins J and H? .....	b	f
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from Wing Pylon Command Signal Encoder- Decoder KY-853/AYQ-9(V) for wing pylon that failed.		
(4) Does continuity exist from:		
Aircraft ground to 61P-Y100A pin X		
61P-W012C pin J to 61P-Y100A pin C		
61P-W012C pin AA to 61P-Y100A pin A		
61P-W012C pin BB to 61P-Y100A pin Y		
61P-W012C pin D to 61P-Y100A pin J		
61P-W012C pin B to 61P-Y100A pin H? .....	c	i
c. Do substeps listed below:		

**Table 1. GO Light On Test Set Does Not Come On, Rocket Firing –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(1) Disconnect 61P-Y112 from 61J-W112 on pylon stores electrical disconnect panel.		
(2) Does continuity exist from:		
Aircraft ground to 61J-W112 pin 36		
61P-W012C pin D to 61J-W112 pin 77		
61P-W012C pin B to 61J-W112 pin 93		
61P-W012C pin J to 61J-W112 pin 5		
61P-W012C pin AA to 61J-W112 pin 21		
61P-W012C pin BB to 61J-W112 pin 20		
61P-W012C pin K to 61J-W112 pin 7? .....	d	e
d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k .....	-	-
e. Replace BRU-33 Wing Pylon Jumper Cable W56232 (A1-F18AC-740-300, WP028 00) and do step k .....	-	-
f. Does 28vdc exist at 61P-Y100A pin Z? .....	g	i
g. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing pylon that failed.		
(4) Does continuity exist from 61P-W012C pin K to 61P-Y100A pin Z? .....	h	j
h. Do substeps listed below:		
(1) Disconnect 61P-Y112 from 61J-W112 on pylon stores electrical disconnect panel.		
(2) Does continuity exist from 61P-Y112 pin 7 to 61P-Y100A pin Z? .....	e	d
i. Replace Aircraft Bomb Ejector Rack BRU-33( ) (A1-F18AC-740-300, WP028 00) and do step k .....	-	-



To prevent encoder-decoder driver circuit failures after replacement of a failed encoder-decoder, bomb ejector racks or jumper cable assemblies should be checked for shorts.



**Table 1. GO Light On Test Set Does Not Come On, Rocket Firing –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
j. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Check BRU-33 wing pylon jumper cable W56232 for shorts, replace if required and repeat step a .....	-	-
k. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-Y100A		
(2) 61P-Y112		
(3) 61P-W012C		
(4) Door 14R		
(5) Doors 502 and 504		
(6) Disconnect proximity switch control .....	-	-

**Table 2. GO Light On Test Set Does Not Come On, Rocket Firing –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292**

Support Equipment Required	
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>
77/BN	Multimeter
<b>Materials Required</b>	
None	
<b>NOTE</b>	
Applicable Weapon Station 2, 3, 7, 8 Rocket Schematic (A1-F18AC-740-500, WP070 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by on the items listed below:	
Aircraft Bomb Ejector Rack BRU-33( )	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
BRU-33 Wing Pylon Jumper Cable W56232	
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

**Table 2. GO Light On Test Set Does Not Come On, Rocket Firing –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins or connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 61P-Y100A from J1 on BRU-33( ).</li> <li>(4) Connect jumper wires between 61P-Y100A pins A, C, and Y and aircraft ground.</li> <li>(5) Open door 14R (A1-F18AC-LMM-010).</li> <li>(6) On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 76 and FUZING switches to 0 for stations being troubleshoot</li> </ol>		
<div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p>		
<ol style="list-style-type: none"> <li>(7) Connect proximity switch control (A1-F18AC-LMM-000).</li> <li>(8) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(9) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</li> <li>(10) On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.</li> <li>(11) On left and right Digital Display Indicator (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.</li> <li>(12) On master arm control panel assembly, press and release A/G switch(A/G selected)</li> </ol>		

**Table 2. GO Light On Test Set Does Not Come On, Rocket Firing –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
<p>(13) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Press 10R pushbutton switch.</p> <p>(d) Press MAN pushbutton switch.</p> <p>(e) Press SGL pushbutton switch.</p> <p>(14) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(15) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(16) Connect multimeter between 61P-Y100A pin H (28vdc fire 2 voltage) and aircraft ground.</p> <p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">28vdc fire 2 voltage exists at 61P-Y100A pin H for approximately 1 second after A/G Weapon release switch is pressed</p> <p>(17) On aircraft control grip assembly, press and release A/G Weapon release switch.</p> <p>(18) Does 28vdc exist at 61P-Y100A pin H? .....</p>		
<p>b. Do substeps listed below:</p> <p>(1) Connect multimeter between 61P-Y100A pin J (28vdc fire 1 voltage) and aircraft ground.</p> <p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">28vdc fire 1 voltage exists at 61P-Y100A pin J for approximately 1 second after A/G Weapon Release switch is pressed.</p> <p>(2) On aircraft control grip assembly, press and release A/G Weapon release switch.</p> <p>(3) Does 28vdc exist at 61P-Y100A pin J? .....</p>	f	b
c. Does 28vdc exist between 61P-Y100A pin Z and aircraft ground? .....	j	c
d. Does continuity exist between 61P-Y100A pin X and aircraft ground ? .....	l	d
e. Replace Aircraft Bomb Ejector Rack BRU-33( ) (A1-F18AC-740-300, WP028 00) and do step t .....	n	e
	-	-

**Table 2. GO Light On Test Set Does Not Come On, Rocket Firing –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from J3 on encoder-decoder.		
(4) Does continuity exist between:		
61P-W012C pin B and 61P-Y100A pin H		
61P-W012C pin V and 61P-Y100A pin W ? .....	g	q
g. Do substeps listed below:		
(1) In door 502, disconnect 61P-Y112 from 61J-W112.		
(2) On BRU-33 wing pylon jumper cable, does continuity exist between:		
61P-Y112 pin 93 and 61P-Y100A pin H		
61P-Y112 pin 100 and 61P-Y100A pin W ? .....	h	i
h. Replace BRU-33 Wing Pylon Jumper Cable W56232 (A1-F18AC-740-300, WP028 00) and do step t .....	-	-
i. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP 034 00) and do step t .....	-	-
j. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from J3 on encoder-decoder.		
(4) Does continuity exist between:		
61P-W012C pin D and 61P-Y100A pin J		
61P-W012C pin E and 61P-Y100A pin W? .....	k	q
k. Do substeps listed below:		
(1) In door 502, disconnect 61P-Y112 from 61J-W112.		
(2) On BRU-33 wing pylon jumper cable, does continuity exist between:		
61P-Y112 pin 77 and 61P-Y100A pin J		
61P-Y112 pin 79 and 61P-Y100A pin W? .....	h	q

**Table 2. GO Light On Test Set Does Not Come On, Rocket Firing –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from J3 on encoder-decoder.		
(4) Does continuity exist between 61P-W012C pin K and 61P-Y100A pin Z? .....	m	q
m. Do substeps listed below:		
(1) In door 502, disconnect 61P-Y112 from 61J-W112.		
(2) On BRU-33 wing pylon jumper cable, does continuity exist between 61P-Y112 pin 7 and 61P-Y100A pin Z? .....	h	i
n. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-Y112 from 61J-W112.		
(3) On BRU-33 wing pylon jumper cable, does continuity exist between 61P-Y112 pin 36 and 61P-Y100A pin X? .....	h	o
o. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
station 2: 52J-U062 pin 20 and aircraft ground		
station 3: 52J-U063 pin 20 and aircraft ground		
station 7: 52J-V067 pin 20 and aircraft ground		
station 8: 52J-V068 pin 20 and aircraft ground? .....	p	i
p. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step t .....	-	-
q. Does continuity exist between:		
61P-W012C pin J and 61P-Y100A pin C		
61P-W012C pin AA and 61P-Y100A pin A		
61P-W012C pin BB and 61P-Y100A pin Y? .....	r	s
r. Do substeps listed below:		
(1) In door 502, disconnect 61P-Y112 from 61J-W112.		

**Table 2. GO Light On Test Set Does Not Come On, Rocket Firing –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
<p>(2) On BRU-33 wing pylon jumper cable, does continuity exist between:</p> <p>61P-Y112 pin 5 and 61P-Y100A pin C  61P-Y112 pin 21 and 61P-Y100A pin A  61P-Y112 pin 20 and 61P-Y100A pin Y? .....</p>	h	i
s. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9V) (A1-F18AC-740-300, WP009 00) and do step t .....	-	-
t. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Aircraft Wing Pylon SUU-63( )		
(2) Jumper wires, 61P-Y100A pins A, C, and Y		
(3) Proximity switch control		
(4) 61P-Y100A		
(5) 61P-Y112		
(6) 61P-W012C		
(7) Doors 14R, 502, and 504 .....	-	-

**Table 3. GO Light On Test Set Does Not Come On, S/V Test –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Applicable Weapon Station 2, 3, 7, 8 Rockets Schematic (A1-F18AC-740-500, WP070 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	

**Table 3. GO Light On Test Set Does Not Come On, S/V Test –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-33( ) Aircraft Wing Pylon SUU-63( ) BRU-33 Wing Pylon Jumper Cable W56232 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"><b>CAUTION</b></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 61P-Y100A from Aircraft Bomb Ejector Rack BRU-33( ).</li> <li>(4) Connect a ground at 61P-Y100A pins A, C and Y.</li> <li>(5) Open door 14R (A1-F18AC-LMM-010).</li> <li>(6) On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 76 and FUZING switches to 0.</li> </ol> <div style="text-align: center;"><b>WARNING</b></div> <p>To prevent injury to personnel, do not connect proximity switch control to aircraft with aircraft launch bar in down position.</p> <ol style="list-style-type: none"> <li>(7) Connect proximity switch control (A1-F18AC-LMM-000).</li> <li>(8) Turn on electrical power (A1-F18AC-LMM-000).</li> </ol>		

**Table 3. GO Light On Test Set Does Not Come On, S/V Test –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
After 3 switch is set to B ON, allow Stores Management System 3 minutes to complete initial BIT.		
(9) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(10) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.		
(11) On proximity switch control, set MAIN GEAR and NOSE GEAR switches to WT OFF WHLS and GEAR UPLOCK switch to UP.		
(12) On master arm control panel assembly, press and release A/G switch.		
(13) On RDDI, press STORES, 10S, MAN and SGL pushbutton switches.		
(14) On master arm control panel assembly, set MASTER switch to ARM.		
(15) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(16) Do substeps listed below:		
(a) On aircraft controller grip assembly, press and release A/G weapon release switch.		
(b) Connect a multimeter between 61P-Y100A pin J and X (ground) or pin H and X (ground).		
(c) Does voltage exist at 61P-Y100A pin J or H? .....	b	c
b. Replace Aircraft Bomb Ejector Rack BRU-33( ) (A1-F18AC-740-300, WP028 00) and do step h .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-Y112 from 61J-W112 on pylon stores electrical disconnect panel.		
(3) Connect a ground at 61J-W112 pins 5, 20 and 21.		
(4) Do substeps a(8) thru a(16).		
(5) Connect a multimeter between 61J-W112 pin 77 and ground or pin 93 and ground.		
(6) Does voltage exist at 61J-W112 pin 77 or 93? .....	d	e



**Table 3. GO Light On Test Set Does Not Come On, S/V Test –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
d. Replace BRU-33 Wing Pylon Jumper Cable W56232 (A1-F18AC-740-300, WP028 00) and do step h .....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012C from J3 of Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) for wing pylon that failed.		
(4) Connect a ground at J3 pins AA, BB and J.		
(5) Do substeps a(8) thru a(16).		
(6) Connect a multimeter between J3 pin B and ground or pin D and ground.		
(7) Does voltage exist at J3 pins D or B? .....	f	g
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step h .....	-	-
g. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step h .....	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-Y100A		
(2) 61P-Y112		
(3) 61P-W012C		
(4) Door 14R		
(5) Doors 502 and 504		
(6) Disconnect proximity switch control .....	-	-

**Table 4. GO Light On Test Set Does Not Come On, S/V Test –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
Applicable Weapon Station 2, 3, 7, 8 Rockets Schematic (A1-F18AC-740-500, WP070 00) may be used as an aid when doing this procedure.		
For component location, refer to WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Bomb Ejector Rack BRU-33( ) Aircraft Wing Pylon SUU-63( ) BRU-33 Wing Pylon Jumper Cable W56232 Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins or connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-Y100A from J1 on BRU-33().		
(4) Connect jumper wires between 61P-Y100A pins A, C, and Y and aircraft ground.		
(5) Open door 14R (A1-F18AC-LMM-010).		
(6) On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT switches to 77 and FUZING switches to 0 for station being troubleshot.		



**Table 4. GO Light On Test Set Does Not Come On, S/V Test –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
c. Replace Aircraft Bomb Ejector Rack BRU-33 (A1-F18AC-740-300, WP028 00 and do step i .....	-	-
d. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 (A1-F18AC-LMM-000).		
(3) Disconnect 61P-W012C from J3 on encoder-decoder.		
(4) Turn on electrical power (A1-F18AC-LMM-010).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
61P-Y100A pin H and 61P-Y100A pin X (ground)		
61P-Y100A pin J and 61P-Y100A pin X (ground)? .....	e	f
e. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step i .....	-	-
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-Y112 from 61J-W112.		
(3) On BRU-33 wing pylon jumper cable, does continuity exist between		
61P-Y112 pin 77 and 61P-Y100A pin J		
61P-Y112 pin 79 and 61P-Y100A pin W		
61P-Y112 pin 93 and 61P-Y100A pin H		
61P-Y112 pin 100 and 61P-Y100A pin W .....	g	h
g. Replace BRU-33 Jumper Cable W56232 (A1-F18AC-740-300, WP028 00) and do step i ...	-	-
h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300,WP034 00) and do step i ....	-	-
i. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-Y100A		
(2) 61P-Y112		
(3) 61P-W012C		
(4) Jumper wires 61P-Y100A pins A, C, and Y		
(5) Disconnect proximity switch control		
(6) Doors 14R, 502, and 504 .....	-	-

**Table 5. Status Not Displayed on DDI For Selected Rocket**

<p align="center"><b>Support Equipment Required</b></p> <p align="center">None</p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>Rocket Avionic Interface Schematic (A1-F18AC-740-500, WP071 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Armament Computer CP-1342/AYQ-9(V)  Digital Data Computer No. 2  Digital Display Indicator IP-1317( )</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<p>a. Do substeps listed below:</p> <p>(1) On LDDI, press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(2) On LDDI, press STORES pushbutton switch.</p> <p>(3) On LDDI, press 10S pushbutton switch.</p> <p>(4) On LDDI, press MAN pushbutton switch.</p> <p>(5) On LDDI, press SGL pushbutton switch.</p> <p>(6) On master arm control panel assembly, set MASTER switch to ARM.</p> <p>(7) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(8) Is display correct on LDDI? .....</p>	b	c
<p>b. Malfunction is caused by one of the items listed below:</p> <p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>(2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) .....</p>	-	-
<p>c. Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00) .....</p>	-	-



**ORGANIZATIONAL MAINTENANCE****TESTING AND TROUBLESHOOTING****TESTING - GUIDED MISSILE LAUNCHER LAU-7( ), AIM-9 SIDEWINDER TEST WITH AN/ASM464A  
GUIDED MISSILE LAUNCHER TEST SET****SUSPENSION AND RELEASE MECHANISMS****Reference Material**

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Software Configuration .....	A1-F18AC-SCM-000
Weapon Control Systems .....	A1-F18AC-740-200
Initiated Built-In-Test .....	WP009 00
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

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**Record of Applicable Technical Directives**

None

**Table 1. AIM-9 Sidewinder Test**

<b>Procedure</b>	<b>Normal Indication</b>	<b>Remedy for Abnormal Indication</b>
<b>System Required Components</b>		
All system components installed.		

Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication						
<div>Related Systems Required</div> <div>Avionics Cooling System Electrical System Maintenance Status Display and Recording System Mission Computer System Multipurpose Display Group</div> <div>Support Equipment Required</div> <table><thead><tr><th>Part Number or Type Designation</th><th>Nomenclature</th></tr></thead><tbody><tr><td>AN/ASM-464A</td><td>Guided Missile Launcher Test Set</td></tr><tr><td>GMU-24A/A (61A91D100)</td><td>Flowmeter</td></tr></tbody></table> <div>Materials Required</div> <div>None</div> <div>NOTE</div> <div>Component locations are shown in WP007 00. Test displays are shown on figure 1 and test equipment hookup is shown on figure 2.</div> <div>If a malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</div> <div>1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).</div> <div><div>WARNING</div><div>To prevent injury or death to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.</div><div>a. Make sure electrical power is off (A1-F18AC-LMM-000).</div><div>b. Make sure all weapons are re- moved from aircraft.</div></div>			Part Number or Type Designation	Nomenclature	AN/ASM-464A	Guided Missile Launcher Test Set	GMU-24A/A (61A91D100)	Flowmeter
Part Number or Type Designation	Nomenclature							
AN/ASM-464A	Guided Missile Launcher Test Set							
GMU-24A/A (61A91D100)	Flowmeter							



Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all Aircraft Guided Missile Launcher LAU-116( ) hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p> <p>g. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER) if installed on aircraft.</p> <p>h. Make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>i. Make sure gun holdback mechanism handle is set to be cleared; gun holdback handle indicator (extended).</p> <p>2. TEST EQUIPMENT HOOKUP.</p>	<p>SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED.</p>	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If knob will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>

Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>a. Remove forward and aft chamber assemblies from breeches on Aircraft Bomb Ejector Racks BRU-32( ) on stations to be tested.</p> <p>b. Remove test set cover and remove cable assembly W1 from cover (fig 2).</p> <p>c. Connect P1 of cable assembly W1 to J1 on test set.</p> <p>d. On test set, set switches as listed below:</p> <p style="padding-left: 40px;">FUNCTION SELECT - TD LINE SELECT - 1 PROGRAM - LAU-7 AUDIO- HI ACQ λ - OFF MISSILE ID - ON STATION - LO/RI</p> <p>e. Remove launcher detent hold-down pin.</p> <p>f. Remove detent wrench safety pin and install test set detent wrench.</p> <p>g. Rotate detent wrench and insert test set aft striker block in rail slot and slide block forward, then release detent wrench.</p> <p>h. Open forward cover on applicable LAU-7( ) launcher.</p> <p>i. Connect P2 of cable assembly W1 to launcher umbilical connector.</p> <p>3. PRELIMINARY.</p> <p>a. Open door 14R (A1-F18AC-LMM-010).</p>		

Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>b. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT L OUTBD and R OUTBD switches to 82 or WING TIP switch to 5 for station 1, or 6 for station 9, zero remaining switches.</p> <p>c. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.</p> <p>d. Apply electrical power (A1-F18AC-LMM-000).</p> <p>e. Connect ground intercommunications (A1-F18AC-LMM-000).</p> <p>f. On MC/HYD ISOL control panel assembly, set MC switch to NORM.</p> <p>g. Make sure RADAR switch on SNSR pod control box panel assembly is OFF.</p> <p>h. On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>i. On Intercommunication Amplifier-Control AM-6979/A or AM-7360/A, set WPN VOL control to HI.</p> <p>j. On left and right Digital Display Indicators, IP-1317( ) (LDDI) and (RDDI), set power switch to DAY or NIGHT and allow 2 minute warm-up. Adjust BRT and CONT for best display.</p>	<p>WPN SYS FAIL indicator is black (not latched).</p> <p>Switches remain on (latched).</p> <p>1. LDDI and RDDI have displays and center pushbutton switch on bottom row is labeled MENU.</p>	<p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p> <p>1. If switches unlatch in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).</p> <p>2. If switches will not remain on, troubleshoot (A1-F18AC-FIM-000, WP012 00).</p> <p>1. No display on LDDI, F/A-18A, do table 1 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 1 (A1-F18AC-745-200, WP007 00).</p> <p>2. No display on RDDI, F/A- 18A, do table 2 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP007 00).</p>

Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication						
<p>k. On Head-Up Display Unit AN/AVQ-28 (HUD), set HUD SYM-DAY/AUTO/ NIGHT switch to DAY or NIGHT. Turn HUD SYM-BRT control cw from OFF position for best contrast.</p> <p>4. INITIATED BIT.</p>	<p>2. LDDI has cautions and advisories displayed.</p> <p>3. Test set, AC POWER lamp ON, SELECTED FUNCTION, GO lamp and STRAY ENERGY, GO and NO GO lamps on.</p> <p>HUD has display.</p>	<p>3. If STANDBY is displayed, F/A-18A, do table 2 (A1-F18AC-745-200, WP004 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP005 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Observe digital voltmeter (DVM) readout on test set for voltage:</p> <table><tr><td>Line Select</td><td>DVM</td></tr><tr><td>1</td><td>105 to 122vac</td></tr><tr><td>9</td><td>0.00</td></tr></table> <p>If wrong voltage, do table 2 (WP037 00).</p> <p>No display on HUD do table 4 (A1-F18AC-745-200, WP006 00).</p>	Line Select	DVM	1	105 to 122vac	9	0.00
Line Select	DVM							
1	105 to 122vac							
9	0.00							
<p><b>NOTE</b></p> <p>After completion of Initiated Built-In-Test (BIT), leave 1, 2 and 3 switches at ON and continue with this test.</p>								
<p>a. Do Initiated Built-In-Test (WP009 00).</p>								
<p><b>NOTE</b></p> <p>If malfunction occurs during the remainder of this procedure, make sure SMS BIT status message is still GO before doing troubleshooting.</p>								

Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication																
b. On RDDI, press MENU pushbutton switch.	Menu display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).																
c. On RDDI, press STORES pushbutton switch.	1. Stores display appears on RDDI.  2. TST displayed below selected sidewinder wing tip or pylon stations on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).  Do table 5 (WP037 01).																
d. On MC/HYD ISOL control panel assembly, set MC switch to 2 OFF.																		
5. PROCEDURE.																		
a. On test set, set FUNCTION SELECT to 1.	Test set SELECTED FUNCTION, NO GO lamp on then off, after 7 to 10 seconds. GO lamp on.	Observe digital voltmeter (DVM) readout on test set for voltage:  <table><tr><td>Line Select</td><td>DVM</td></tr><tr><td>9</td><td>0.00</td></tr><tr><td>10</td><td>160 to 190vdc</td></tr><tr><td>11</td><td>22.5 to 30.0vdc</td></tr><tr><td>12</td><td>24.0 to 26.4vdc</td></tr><tr><td>21</td><td>1.7 to 2.3vdc</td></tr><tr><td>22</td><td>1.7 to 2.3vdc</td></tr><tr><td>23</td><td>22.5 to 30.0vdc</td></tr></table>  If wrong voltage, do tables 2 and 3 (WP037 00).	Line Select	DVM	9	0.00	10	160 to 190vdc	11	22.5 to 30.0vdc	12	24.0 to 26.4vdc	21	1.7 to 2.3vdc	22	1.7 to 2.3vdc	23	22.5 to 30.0vdc
Line Select	DVM																	
9	0.00																	
10	160 to 190vdc																	
11	22.5 to 30.0vdc																	
12	24.0 to 26.4vdc																	
21	1.7 to 2.3vdc																	
22	1.7 to 2.3vdc																	
23	22.5 to 30.0vdc																	
b. On master arm control panel assembly, press and release A/A switch.	1. A/A indicator light comes on.  2. Audio signal heard in headset.	On F/A-18A, do table 1, (WP010 33). On F/A-18B, do table 2, (WP010 33).  Observe digital voltmeter (DVM) readout on test set for voltage:  <table><tr><td>Line Select</td><td>DVM</td></tr><tr><td>9</td><td>0.00</td></tr><tr><td>4</td><td>2.75 to 3.25vdc</td></tr></table>  If wrong voltage, do table 1 (WP037 00).	Line Select	DVM	9	0.00	4	2.75 to 3.25vdc										
Line Select	DVM																	
9	0.00																	
4	2.75 to 3.25vdc																	

Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication						
c. On right throttle grip, press and release cage/uncage switch.	Test set SELECTED FUNCTION, GO and NO GO lamps alternate each time cage/uncage switch is pressed and release, GO lamp on.	Observe digital voltmeter (DVM) readout on test set for voltage:  <table><tr><th>Line Select</th><th>DVM</th></tr><tr><td>21</td><td>1.7 to 2.3vdc</td></tr><tr><td>21</td><td>1.7 to 2.3vdc</td></tr></table> If wrong voltage, do table 3 (WP037 00).	Line Select	DVM	21	1.7 to 2.3vdc	21	1.7 to 2.3vdc
Line Select	DVM							
21	1.7 to 2.3vdc							
21	1.7 to 2.3vdc							

WARNING

In test set FUNCTION SELECT positions 2 and 3, if a STRAY ENERGY, NO GO lamp comes on, inadvertent launch of a AIM-9 missile could result after loading with power applied.

NOTE

STRAY ENERGY, GO lamp comes on and remains on throughout test if stray energy circuits are within limits.

d. On test set, set FUNCTION SELECT switch to 2.	Test set STRAY ENERGY GO lamp on; SELECTED FUNCTION, NO GO lamp on.	Observe digital voltmeter (DVM) readout on test set for voltage:  <table><tr><th>Line Select</th><th>DVM</th></tr><tr><td>3</td><td>40 to 50vac</td></tr><tr><td>13</td><td>0.00</td></tr><tr><td>14</td><td>19.6 to 27.2vdc</td></tr><tr><td>15</td><td>0.00</td></tr></table> If wrong voltage, do tables 2 and 4 (WP037 00).	Line Select	DVM	3	40 to 50vac	13	0.00	14	19.6 to 27.2vdc	15	0.00
Line Select	DVM											
3	40 to 50vac											
13	0.00											
14	19.6 to 27.2vdc											
15	0.00											
e. On master arm control panel assembly, set MASTER switch to ARM.	On HUD X remains through SW2	1. No display, do table 4 (A1-F18AC-740-200, WP006 00).  2. Do table 6 (WP037 01).										
f. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.	1. Switch remains engaged.  2. On HUD X removed from SW2; indicates SW is armed and ready.	Do table 1 (WP012 00).  Do table 6 (WP037 01).										

Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication										
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 10A: When troubleshooting, maintenance codes are displayed on Digital Display Indicator ID-2150/ASM-612 (nose wheelwell DDI, left side). Read and record maintenance codes.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 15C AND UP: When troubleshooting, maintenance codes are displayed on the cockpit Digital Display Indicator ID-1317( ) (LDDI and RDDI) in hexadecimal and on the Digital Display Indicator ID-2150/ASM (nose wheelwell DDI, left side) in decimal. Read and record maintenance codes displayed in the cockpit only.</p>												
g. On aircraft controller grip assembly, press and release gun/ A/A missile trigger switch to second detent	Test set SELECTED FUNCTION, GO lamp on.	<p>1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black. If not, read and record maintenance codes in appropriate location. If maintenance code 071, 072, 078, 079, or 084 is displayed, do table 1 (WP010 00).</p> <p>2. Observe digital voltmeter (DVM) readout on test set for voltage:</p> <table><tr><td>Line Select</td><td>DVM</td></tr><tr><td>3</td><td>0 to 50vac</td></tr><tr><td>13</td><td>12.5 to 17.5vdc</td></tr><tr><td>14</td><td>19.6 to 27.2vdc</td></tr><tr><td>151</td><td>11.8 to 28.0vdc</td></tr></table> <p>If wrong voltage, do tables 2 and 4 (WP037 00).</p>	Line Select	DVM	3	0 to 50vac	13	12.5 to 17.5vdc	14	19.6 to 27.2vdc	151	11.8 to 28.0vdc
Line Select	DVM											
3	0 to 50vac											
13	12.5 to 17.5vdc											
14	19.6 to 27.2vdc											
151	11.8 to 28.0vdc											
h. On test set, set FUNCTION SELECT switch to 3.	Test set STRAY ENERGY GO lamp and SELECTED FUNCTION, NO GO lamp on.	Do table 4 (WP037 00).										
i. On master arm control panel assembly, set MASTER switch to SAFE.												
j. Remove test set detent wrench from LAU-7( ) launcher.	Test set SELECTED FUNCTION, NO GO lamp remains on.	Do table 4 (WP037 00).										
k. On master arm control panel assembly, set MASTER switch to ARM.												

Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication														
l. On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to override.																
<div>NOTE</div> <div>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 10A: When troubleshooting, maintenance codes are displayed on Digital Display Indicator ID-2150/ASM-612 (nose wheelwell DDI, left side). Read and record maintenance codes.</div> <div>WITH DIGITAL DATA COMPUTER CONFIG/INDENT 15C AND UP: When troubleshooting, maintenance codes are displayed on the cockpit Digital Display Indicator ID-1317() (LDDI and RDDI) in hexadecimal and on the Digital Display Indicator ID-2150/ASM (nose wheelwell DDI, left side) in decimal. Read and record maintenance codes displayed in the cockpit only.</div>																
m. On aircraft controller grip assembly, press and release gun/ A/A missile trigger switch to second detent.	Test set SELECTED FUNCTION GO lamp on.	<div>1. Observe WPN SYS FAIL indicator on Digital Display Indicator ID-2150/ASM-612 in nose wheelwell is black. If not, read and record maintenance codes in appropriate location. If maintenance code 071, 072, 078, 079, or 084 is displayed, do table 1 (WP010 00).</div> <div>2. Observe digital voltmeter (DVM) readout on test set for voltage:</div> <table><tr><td>Line Select</td><td>DVM</td></tr><tr><td>9</td><td>0.00</td></tr><tr><td>13</td><td>12.5 to 17.5vdc</td></tr><tr><td>14</td><td>19.6 to 27.2vdc</td></tr><tr><td>15</td><td>11.8 to 28.0vdc</td></tr><tr><td>16</td><td>2.68 thru 5.28vdc</td></tr><tr><td>17</td><td>24.0 to 26.4vdc</td></tr></table> <div>If wrong voltage, do tables 2 and 4 (WP037 00).</div>	Line Select	DVM	9	0.00	13	12.5 to 17.5vdc	14	19.6 to 27.2vdc	15	11.8 to 28.0vdc	16	2.68 thru 5.28vdc	17	24.0 to 26.4vdc
Line Select	DVM															
9	0.00															
13	12.5 to 17.5vdc															
14	19.6 to 27.2vdc															
15	11.8 to 28.0vdc															
16	2.68 thru 5.28vdc															
17	24.0 to 26.4vdc															
n. On test set, set FUNCTION SELECT switch to 4.																



Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
o. On MC/HYD ISOL control panel assembly, set MC switch to NORM.	1. Test set SELECTED FUNCTION, NO GO lamp on.	Observe digital voltmeter (DVM) readout on test set for voltage: <div> <div>Line Select</div> <div>DVM</div> <div>9</div> <div>0.00</div> <div>4</div> <div>0.00</div> <div>6</div> <div>2.1 to 2.3vrms</div> <div>5</div> <div>1.0 to 2.6vrms</div> </div> <p>If wrong voltage, do table 1 (WP037 01).</p>
	2. Sidewinder seeker circle is at cage position on HUD display.	Do table 6 (WP037 01).
p. On test set, set ACQλ switch to 1.		
q. On right throttle grip, press and release cage/uncage switch.	1. Test set SELECTED FUNCTION, GO lamp on.	Observe digital voltmeter (DVM) readout on test set for voltage: <div> <div>Line Select</div> <div>DVM</div> <div>8</div> <div>0 to 0.26vdc</div> <div>9</div> <div>0.00 0 to 2.6vdc</div> <div>7</div> <div>22.5 to 30.0vdc</div> <div>20</div> <div>22.5 to 30.0vdc</div> </div> <p>If wrong voltage, do table 2 (WP037 01).</p>
	2. Sidewinder seeker circle is uncaged on HUD display.	Do table 6 (WP037 01).
r. On LDDI, press MENU pushbutton switch.	Menu display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
s. Press BIT pushbutton switch.	BIT control display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).

Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
t. Press MI pushbutton switch.	<p>1. Changes below appear on LDDI display:</p> <p>a. LDDI BIT control display pushbutton labels change to memory inspect options.</p> <p>b. Increment arrow, decrement arrow, ADDR, and DATA appear on LDDI memory inspect display.</p> <p>2. Electronic Equipment Control C-10380/ASQ (equipment control) displays options listed below:</p> <p>a. UNIT appears in option 1 display.</p> <p>b. ADDR appears in option 2 display.</p>	<p>Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>See Electronic Equipment Control C-10380/ASQ Lamp and Switch Test (A1-F18AC-741-200, WP004 00).</p>
u. On equipment control, press option 1 select switch.	Option 1 select colon (:) appears on left side of option 1 display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).

**NOTE**

If an error occurs while pressing keyboard switches, press keyboard CLR switch and repeat step.

v. Press keyboard 6 switch.	6 is displayed on equipment control scratch pad display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
w. Press keyboard ENT switch.	6 is displayed between ADDR and DATA on LDDI memory inspect display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
x. Press option 2 select switch.	Option 2 select colon (:) appears on left side of option 2 display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
y. With Armament Computer CP-1342/AYQ-9(V) CONFIG/IDENT Number 84A AND UP (A1-F18AC-SCM-000), enter ref code MSG 2 WD 4, press keyboard 5, 7, 3 and 4 switches.	5734 is displayed on equipment control, scratch pad display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).

Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication								
z. Press keyboard ENT switch.	005734 is displayed under ADDR on LDDI memory inspect display.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).								
<div>NOTE</div> <div>The X under DATA readout can be any digit.</div>										
aa. On test set, set AUDIO switch to LO.	XXX00X is displayed under DATA readout.	<div>Observe digital voltmeter (DVM) readout on test set for voltage:</div> <table><tr><td>Line Select</td><td>DVM</td></tr><tr><td>4</td><td>0.75 to 1.25vdc</td></tr><tr><td>9</td><td>0.00</td></tr><tr><td>20</td><td>0.00</td></tr></table> <div>If wrong voltage, do table 3 (WP037 01).</div>	Line Select	DVM	4	0.75 to 1.25vdc	9	0.00	20	0.00
Line Select	DVM									
4	0.75 to 1.25vdc									
9	0.00									
20	0.00									
ab. On test set, set AUDIO switch to HI.	XXX40X is displayed.	<div>Observe digital voltmeter (DVM) readout on test set for voltage:</div> <table><tr><td>Line Select</td><td>DVM</td></tr><tr><td>20</td><td>22.5 to 30.0vdc</td></tr></table> <div>If wrong voltage, do table 2 and 3 (WP037 01).</div>	Line Select	DVM	20	22.5 to 30.0vdc				
Line Select	DVM									
20	22.5 to 30.0vdc									
ac. On right throttle grip, press and release cage/uncage switch.	XXX44X is displayed under DATA readout.	<div>Observe digital voltmeter (DVM) readout on test set for voltage:</div> <table><tr><td>Line Select</td><td>DVM</td></tr><tr><td>20</td><td>0.00</td></tr></table> <div>If wrong voltage, do tables 2 and 3 (WP037 01).</div>	Line Select	DVM	20	0.00				
Line Select	DVM									
20	0.00									
ad. On test set, set ACQλ switch to OFF.										
ae. On test set, set FUNCTION SELECT switch to OFF.	Test set, AC POWER lamp off.	Repair test set.								

Table 1. AIM-9 Sidewinder Test (Continued)

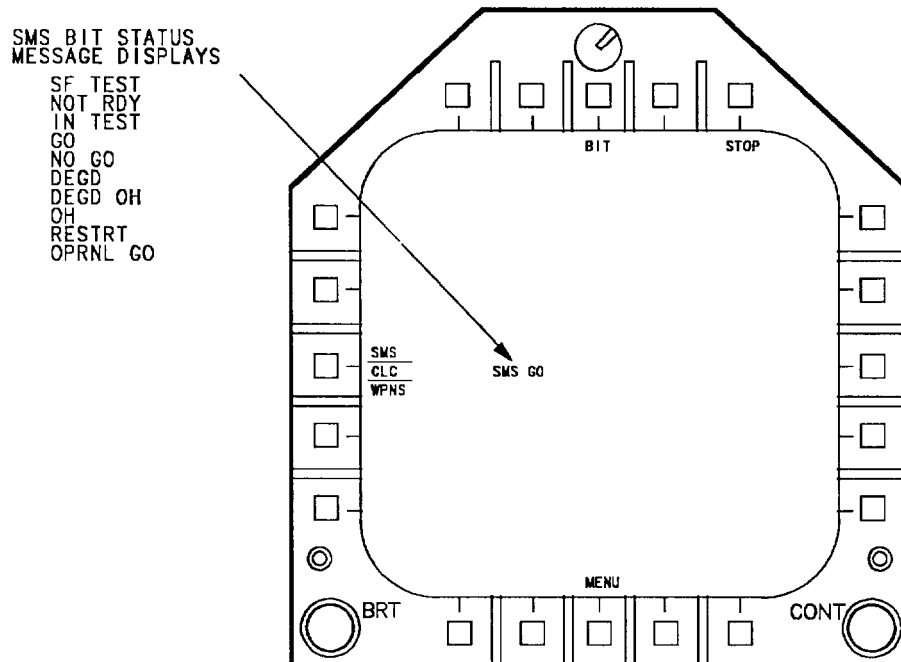
Procedure	Normal Indication	Remedy for Abnormal Indication								
6. NITROGEN FLOW TEST.  a. On GND PWR control panel assembly, set 3 switch to AUTO.  b. Remove P2 of cable assembly W1 from launcher umbilical connector.										
<div>NOTE</div> <div>A serviced nitrogen receiver is required for steps 6c thru 6h.</div>										
c. Remove flowmeter from case and connect flowmeter to launcher umbilical connector of station under test.  d. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.  e. On map gain control panel assembly, set IR COOL switch to ORIDE.	Flow indication is above 25 on flowmeter.	Observe digital voltmeter (DVM) readout on test set for voltage:  <table><tr><td>Line Select</td><td>DVM</td></tr><tr><td>19</td><td>22.5 to 30.0vdc</td></tr><tr><td>23</td><td>22.5 to 30.0vdc</td></tr><tr><td>9</td><td>0.00</td></tr></table> If wrong voltage, do table 4 (WP037 01).	Line Select	DVM	19	22.5 to 30.0vdc	23	22.5 to 30.0vdc	9	0.00
Line Select	DVM									
19	22.5 to 30.0vdc									
23	22.5 to 30.0vdc									
9	0.00									
f. Set IR COOL switch to OFF.  g. On GND PWR control panel assembly, set 3 switch to AUTO.  h. Remove flowmeter from launcher umbilical connector and stow flowmeter in case.  i. If other stations are tested, set 3 switch to AUTO on GND PWR control panel assembly and repeat PROCEDURE for next station. If no other station is tested, do SHUTDOWN.	Flow indication is 0.	Replace map gain control panel assembly (A1-F18AC-742-300, WP016 00).								

Table 1. AIM-9 Sidewinder Test (Continued)

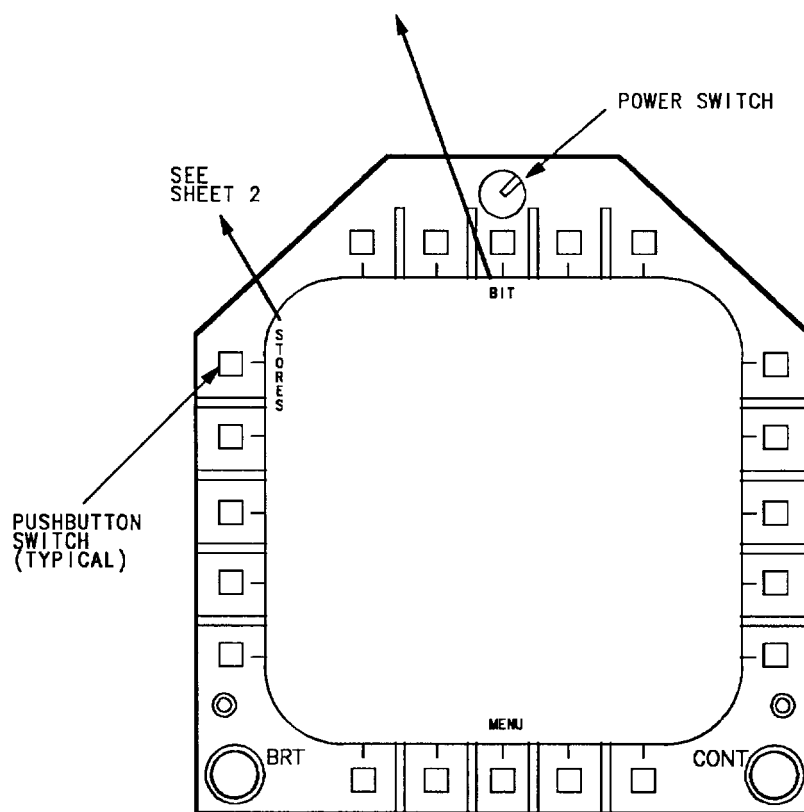
Procedure	Normal Indication	Remedy for Abnormal Indication
<p>7. SHUTDOWN</p> <p>a. On master arm control panel assembly, set MASTER switch to SAFE.</p> <p>b. On master arm control panel assembly, press and release A/A switch.</p> <p>c. On LDDI and RDDI, set power switch to OFF.</p> <p>d. On HUD, set HUD SYM-DAY/AUTO/NIGHT switch to AUTO and turn HUD SYM-BRT control to OFF.</p> <p>e. On GND PWR control panel assembly, set 3, 2, and 1 switches to AUTO.</p> <p>f. Remove electrical power (A1-F18AC-LMM-000).</p> <p>g. Insert detent wrench safety pin in LAU-7( ) launcher.</p> <p>h. Rotate detent wrench safety pin and remove test set aft striker block from LAU-7( ) launcher rail.</p> <p>i. Install detent holddown pin in LAU-7( ) launcher.</p> <p>j. Disconnect ground intercommunications (A1-F18AC-LMM-000)</p> <p>k. Disconnect P1 of cable assembly W1 from test set.</p> <p>l. Stow cable assembly W1 in test set cover and install cover.</p> <p>m. Close door 14R (A1-F18AC-LMM-010).</p>	<p>ARMAMENT OVERRIDE switch disengages.</p> <p>A/A indicator light goes off.</p>	<p>Do table 3 (WP010 17).</p> <p>On F/A-18A, do table 1, (WP010 32). On F/A-18B, do table 2, (WP010 32).</p>

Table 1. AIM-9 Sidewinder Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>n. Install chamber assemblies in breeches of Aircraft Bomb Ejector Rack BRU-32( ).</p> <p>o. Close forward cover on LAU-7( ) launchers.</p>		

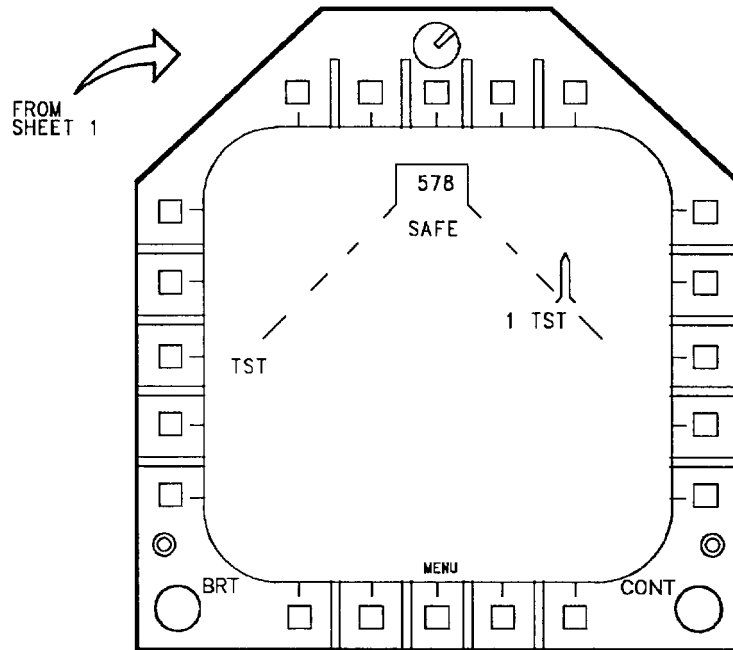


BIT CONTROL DISPLAY

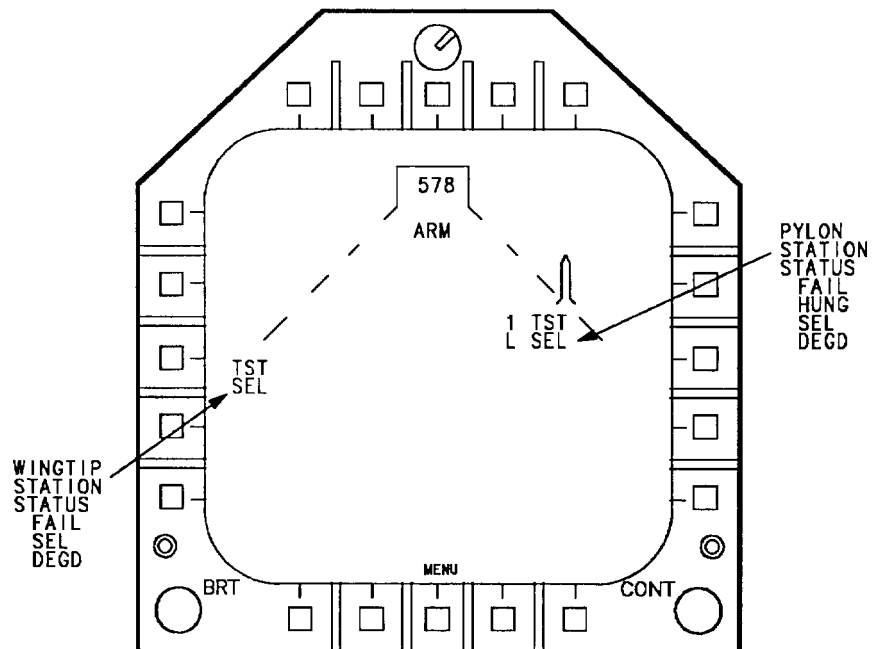


MENU DISPLAY

Figure 1. Test Displays (Sheet 1)



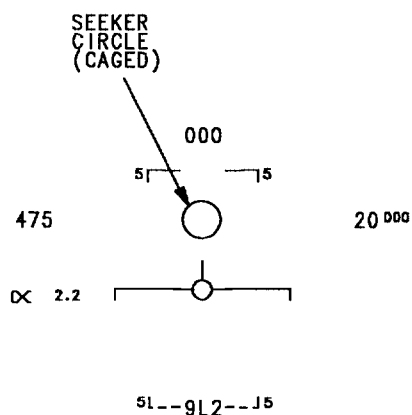
STORES DISPLAY  
(AN/ASM-464 TEST SET CONNECTED,  
MASTER ARM AT SAFE)



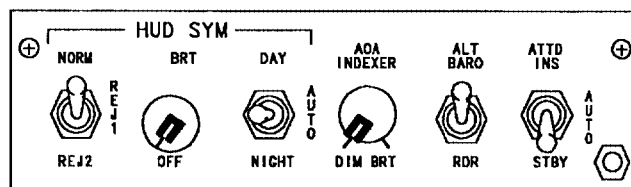
STORES DISPLAY  
(AN/ASM-464 TEST SET CONNECTED,  
MASTER ARM AT ARM, AIM-9 SELECTED)

Figure 1. Test Displays (Sheet 2)

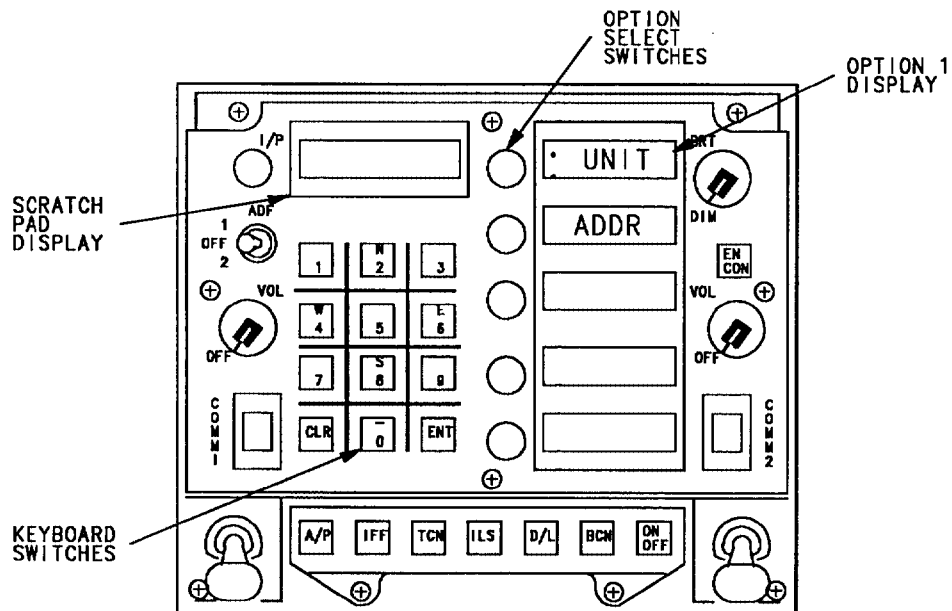




HUD DISPLAY



HUD



ELECTRONIC EQUIPMENT  
CONTROL C-10380/ASQ

Figure 1. Test Displays (Sheet 3)

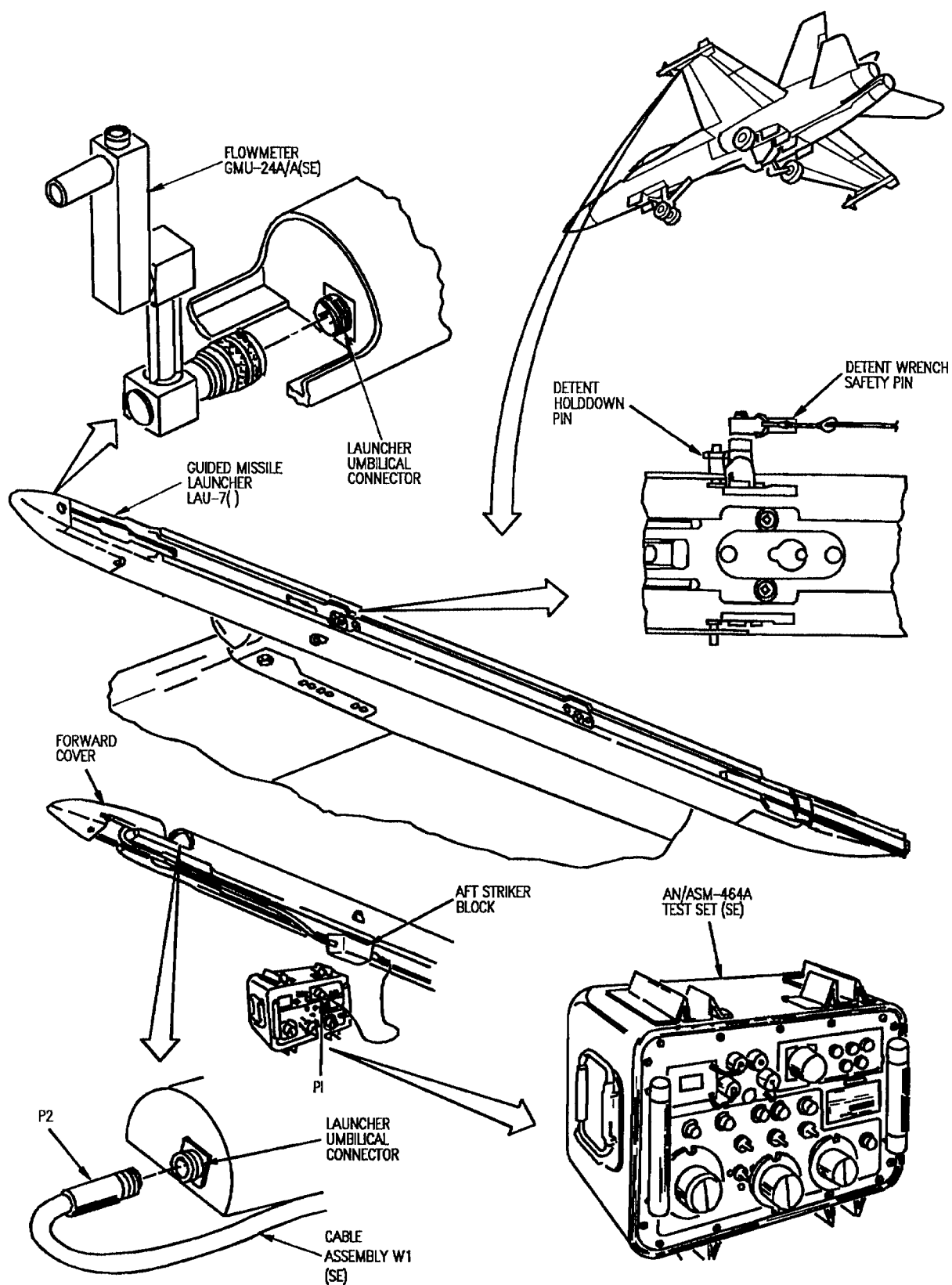


Figure 2. Test Equipment Hookup (Sheet 1)

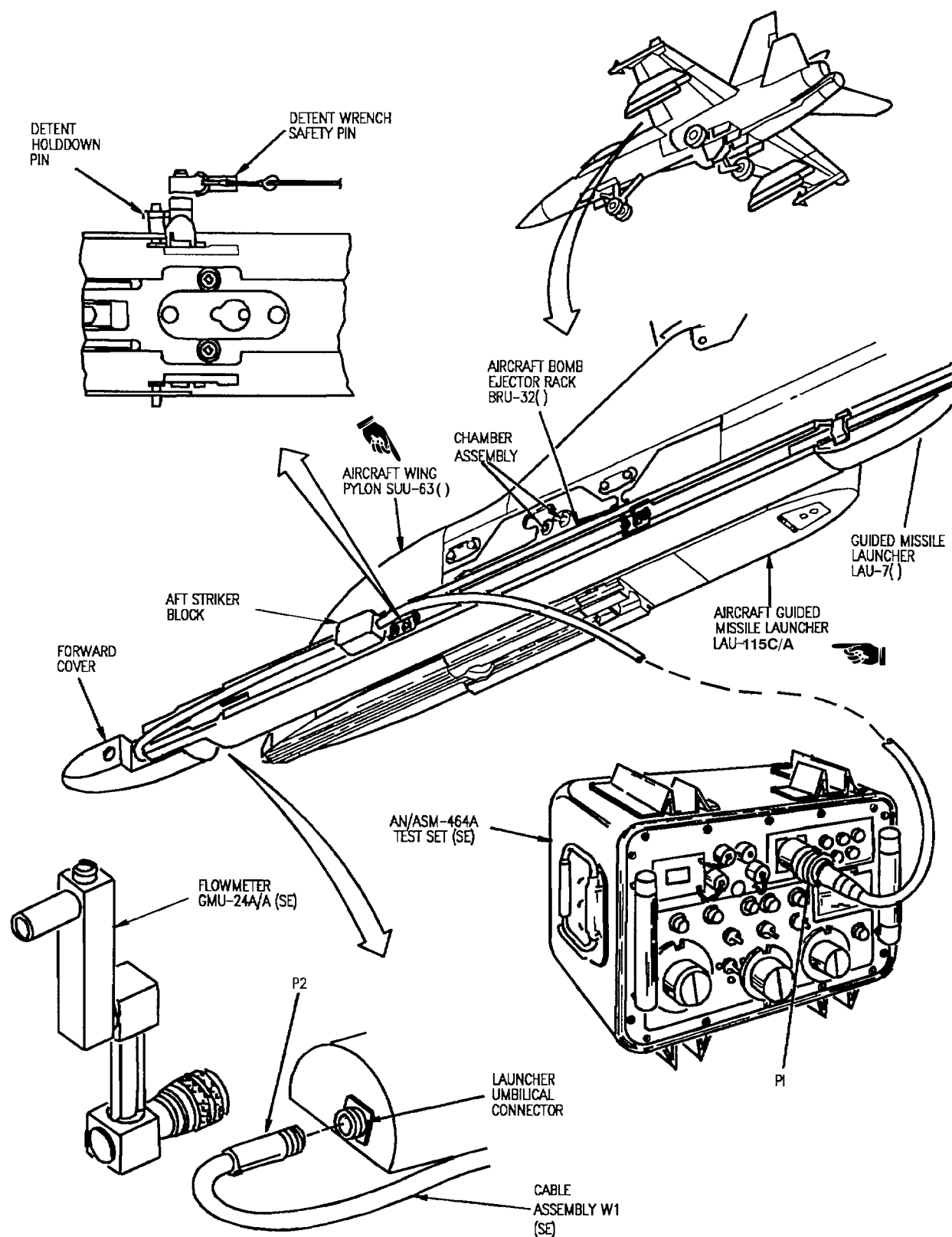


Figure 2. Test Equipment Hookup (Sheet 2)



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - GUIDED MISSILE LAUNCHER LAU-7( ), AIM-9 SIDEWINDER TEST, PART 1

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 161353 THRU 161924

## Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

None

Table 1. No Tone In Headset

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 1. No Tone In Headset (Continued)**

NOTE		
<p>Weapon Station 1, 2, 8 or 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00 or WP047 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items below:</p> <p>Aircraft Guided Missile Launcher LAU-115C/A  Aircraft Wing Pylon SSU-63( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  Cable Assembly  Guided Missile Launcher LAU-7( )</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>This procedure includes wing tip stations 1 and 9 or wing pylon stations 2 and 8.</p>		
a. Is this trouble at wing tip station? .....	b	i
b. On wing pylon station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095B from Aircraft Guided Missile Launcher LAU-115C/A.		

Table 1. No Tone In Headset (Continued)

Procedure	No	Yes
<p>(4) Open door 14R (A1-F18AC-LMM-010).</p> <p>(5) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(6) Does continuity exist from:</p> <p style="padding-left: 40px;">Station 2,</p> <p style="padding-left: 80px;">61P-W095B pin V to 61P-F001B pin 100 61P-W095B pin r to 61P-F001B pin 101</p> <p style="padding-left: 40px;">or Station 8,</p> <p style="padding-left: 80px;">61P-W095B pin V to 61P-F001B pin 89 61P-W095B pin r to 61P-F001B pin 90? .....</p>	c	e
c. Do substeps listed below:		
<p>(1) Disconnect 61P-W093 from 61J-W093 AIR-AIR receptacle on pylon stores electrical disconnect panel.</p> <p>(2) Does continuity exist from:</p> <p style="padding-left: 40px;">61P-W095B pin V to 61P-W093 pin 55 61P-W095B pin r to 61P-W093 pin 66? .....</p>	d	f
d. Replace cable assembly (A1-F18AC-740-300, WP025 00) and do step k .....	-	-
e. Malfunction is caused by one of the items listed below:		
<p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>(2) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).</p> <p>(3) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k ....</p>	-	-
f. Do substeps listed below:		
<p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist from:</p> <p style="padding-left: 40px;">Station 2,</p> <p style="padding-left: 80px;">52J-U062 pin 33 to 61P-F001B pin 100 52J-U062 pin 44 to 61P-F001B pin 101</p> <p style="padding-left: 40px;">or Station 8,</p>		

Table 1. No Tone In Headset (Continued)

Procedure	No	Yes
52J-V068 pin 33 to 61P-F001B pin 89 52J-V068 pin 44 to 61P-F001B pin 90? .....	g	h
g. Isolate defective wiring (A1-F18A( )-WDM-000) and do step k .....	-	-
h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k ..	-	-
i. On wing tip stations do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 144L or 144R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-U021A or 61P-V029A from Guided Missile Launcher LAU-7( ).		
(4) Open door 14R (A1-F18AC-LMM-010).		
(5) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(6) Does continuity exist from:		
Station 1,		
61P-U021A pin 18 to 61P-F001B pin 87		
61P-U021A pin 19 to 61P-F001B pin 99		
or Station 9,		
61P-V029A pin 18 to 61P-F001B pin 79		
61P-V029A pin 19 to 61P-F001B pin 78? .....	g	j
j. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k ....	-	-
k. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-U021A		
(2) 61P-V029A		
(3) 61J/P-W093		
(4) 61P-W095B		
(5) 61P-F001B		




Table 1. No Tone In Headset (Continued)

Procedure	No	Yes
(6) Door 14R		
(7) Door 144L/R		
(8) Aircraft Wing Pylon SUU-63( )		
(9) Door 502 .....	-	-

**Table 2. AC POWER Lamp, SELECTED FUNCTION GO Lamp, And STRAY ENERGY GO And NO GO Lamps, Do Not Come On Test Set FUNCTION SELECT Switch At TD**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 1, 2, or 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00 or WP047 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items below:	
Aircraft Wiring Cable Assembly No. 4 Circuit Breaker Panel Assembly No. 7 Circuit Breaker/Relay Panel Assembly	

**Table 2. AC POWER Lamp, SELECTED FUNCTION GO Lamp, And STRAY ENERGY GO And NO GO Lamps, Do Not Come On Test Set FUNCTION SELECT Switch At TD (Continued)**

Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>This procedure includes wing tip stations 1 and 9 or wing pylon stations 2 and 8.</p>		
a. Is this trouble at wing tip station? .....	b	i
b. On wing pylon station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095B from Aircraft Guided Missile Launcher LAU-115C/A.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds. Allow 2 minute warmup.		
(6) Does 28vdc exist at 61P-W095B pin A? .....	c	d
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-W093 from 61J-W093 AIR-AIR receptacle on pylon stores electrical disconnect panel.		
(3) Does continuity exist from 61P-W095B pin A to 61P-W093 pin 8? .....	e	f

**Table 2. AC POWER Lamp, SELECTED FUNCTION GO Lamp, And STRAY ENERGY GO And NO GO Lamps, Do Not Come On Test Set FUNCTION SELECT Switch At TD (Continued)**

Procedure	No	Yes
d. Do table 2 WP037 11 or table 1 WP037 12 and do step n .....	-	-
e. Replace cable assembly (A1-F18AC-740-300, WP025 00) and do step n .....	-	-
f. Do substeps listed below:		
(1) Open door 10L or 10R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly or 52P-D026C from no. 4 circuit breaker panel assembly.		
(3) Does continuity exist from:		
Station 2,		
61J-W093 pin 8 to 52P-C057C pin r		
or Station 8,		
On 161353 THRU 161359, 61J-W093 pin 8 to 52P-D026C pin h		
On 161360 AND UP, 61J-W093 pin 8 to 52P-D026C pin t? .....	g	h
g. Isolate defective wiring (A1-F18A( )-WDM-000) and do step n .....	-	-
h. Do one of the items listed below:		
(1) Isolate malfunction between no. 7 circuit breaker/relay panel assembly and 61CBC055 (A1-F18AC-420-300, WP027 00).		
(2) Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD079 (A1-F18AC-420-300, WP025 00). Do step n .....	-	-
i. On wing tip station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 144L or 144R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-U021A or 61P-V029A from Guided Missile Launcher LAU-7( ).		
(4) Does continuity exist from 61P-U021A or 61P-V029A pin 16 to aircraft ground? ....	g	j
j. Do substeps listed below:		
(1) Turn on electrical power (A1-F18AC-LMM-000).		
(2) On GND PWR control panel assembly, set and hold 1, and 2 switches to B ON for 3 seconds.		

**Table 2. AC POWER Lamp, SELECTED FUNCTION GO Lamp, And STRAY ENERGY GO And NO GO Lamps, Do Not Come On Test Set FUNCTION SELECT Switch At TD (Continued)**

Procedure	No	Yes
(3) Does 28vdc exist at 61P-U021A pin 15 or 61P-V029A pin 15? .....	k	l
k. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L or 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly or 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) Does continuity exist from:		
Station 1,		
On 161353 THRU 161528, 61P-U021A pin 15 to 52P-C057C pin X		
On 161702 AND UP, 61P-U021A pin 15 to 52P-C057C pin d		
or Station 9,		
On 161353 THRU 161359, 61P-V029A pin 15 to 52P-D026C pin J		
On 161360 THRU 161528, 61P-V029A pin 15 to 52P-D026C pin k		
On 161702 AND UP, 61P-V029A pin 15 to 52P-D026C pin F? .....	g	m
l. Do table 1 WP037 11 or table 3 WP037 12 and do step n .....	-	-
m. Do one of the items listed below:		
(1) Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring and 61CBC051 (A1-F18AC-420-300, WP027 00).		
(2) Isolate malfunction between no. 4 circuit breaker panel assembly wiring and 61CBD083 (A1-F18AC-420-300, WP025 00). Do step n .....	-	-
n. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-U021A		
(2) 61P-V029A		
(3) 52P-C057C		
(4) 52P-D026C		
(5) 61P-W095B		
(6) 61P/J-W093		


**Table 2. AC POWER Lamp, SELECTED FUNCTION GO Lamp, And STRAY ENERGY GO And NO GO Lamps, Do Not Come On Test Set FUNCTION SELECT Switch At TD (Continued)**

Procedure	No	Yes
(7) Door 144L/R		
(8) Door 10L/R		
(9) Door 502 .....	-	-

**Table 3. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set FUNCTION SELECT Switch At 1**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 1, 2, 8 or 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00 or WP047 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items below:	
Aircraft Guided Missile Launcher LAU-115C/A	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
Cable Assembly	
Guided Missile Launcher LAU-7( )	
Left/Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)	
Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

**Table 3. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set  
FUNCTION SELECT Switch At 1 (Continued)**

Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>This procedure includes wing tip stations 1 and 9 or wing pylon stations 2 and 8.</p> </div>		
a. Is this trouble at wing tip station? .....	b	h
b. On wing pylon station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 and 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).		
(4) Disconnect 61P-W095B from Aircraft Guided Missile Launcher LAU-115C/A.		
(5) Does continuity exist from:		
61P-W012D pin EE to 61P-W095B pin q		
61P-W012D pin c to 61P-W095B pin EE		
61P-W012D pin U to 61P-W095B pin C? .....	c	d
c. Do substeps listed below:		
(1) Disconnect 61P-W093 from 61J-W093 AIR-AIR receptacle on pylon stores electrical disconnect panel.		
(2) Does continuity exist from:		

**Table 3. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set  
FUNCTION SELECT Switch At 1 (Continued)**


Procedure	No	Yes
61P-W012D pin EE to 61J-W093 pin 76 61P-W012D pin c to 61J-W093 pin 74 61P-W012D pin U to 61J-W093 pin 53? .....	e	f
d. Malfunction is caused by one of the items listed below:		
(1) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).  (2) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).  (3) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k ....	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k ..	-	-
f. Does continuity exist from:		
61P-W093 pin 76 to 61P-W095B pin q 61P-W093 pin 74 to 61P-W095B pin EE 61P-W093 pin 53 to 61P-W095B pin C? .....	g	d
g. Replace cable assembly (A1-F18AC-740-300, WP025 00) and do step k .....	-	-
h. On wing tip station, do substeps listed below.		
(1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Open door 144L or 144R (A1-F18AC-LMM-010).  (3) Disconnect 61P-U021A or 61P-V029A from Guided Missile Launcher LAU-7( ).  (4) Open door 159L or 159R (A1-F18AC-LMM-010).  (5) Disconnect 61P-U011B and 61P-U011A or 61P-V019B and 61P-V019A from Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V).  (6) Does continuity exist from:  Station 1,  61P-U021A pin 22 to 61P-U011A pin 13 61P-U021A pin 26 to 61P-U011B pin 3 61P-U021A pin 16 to aircraft ground  or Station 9,  61P-V029A pin 22 to 61P-V019A pin 13 61P-V029A pin 26 to 61P-V019B pin 3 61P-V029A pin 16 to aircraft ground? .....	i	j

**Table 3. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set  
FUNCTION SELECT Switch At 1 (Continued)**

Procedure	No	Yes
i. Isolate defective wiring (A1-F18A( )-WDM-000) and do step k .....	-	-
j. Malfunction is caused by one of the items listed below:		
(1) Left or Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00)		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k ....	-	-
k. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-U021A		
(2) 61P-U011A		
(3) 61P-U011B		
(4) 61P-V029A		
(5) 61P-V019A		
(6) 61P-V019B		
(7) 61P-W012D		
(8) 61P-W095B		
(9) 61J/P-W093		
(10) Door 144L/R		
(11) Door 159L/R		
(12) Door 502 and 504 .....	-	-



**Table 4. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set  
FUNCTION SELECT Switch At 2 or 3**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 1, 2, 8 or 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00 or WP047 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items below:		
Aircraft Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Cable Assembly Guided Missile Launcher LAU-7( ) Left/Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 4. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set  
FUNCTION SELECT Switch At 2 or 3 (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>This procedure includes wing tip stations 1 and 9 or wing pylon stations 2 and 8.</p>		
a. Is this trouble at wing tip station? .....	b	h
b. On wing pylon station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 and 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).		
(4) Disconnect 61P-W095B from Aircraft Guided Missile Launcher LAU-115C/A.		
(5) Does continuity exist from:		
61P-W012D pin F to 61P-W095B pin u		
61P-W012D pin P to 61P-W095B pin E		
61P-W012D pin x to 61P-W095B pin U		
61P-W012D pin v to 61P-W095B pin HH		
61P-W012D pin c to 61P-W095B pin EE? .....	c	d
c. Do substeps listed below:		
(1) Disconnect 61P-W093 from 61J-W093 AIR-AIR receptacle on pylon stores electrical disconnect panel.		
(2) Does continuity exist from:		
61P-W012D pin F to 61J-W093 pin 4		
61P-W012D pin P to 6LJ-W093 pin 99		
61P-W012D pin x to 6LJ-W093 pin 69		
61P-W012D pin v to 61J-W093 pin 75		
61P-W012D pin c to 61J-W093 pin 74? .....	e	f

**Table 4. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set  
FUNCTION SELECT Switch At 2 or 3 (Continued)**

Procedure	No	Yes
d. Malfunction is caused by one of the items listed below:		
(1) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00)		
(2) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).		
(3) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k . . . . .	-	-
f. Does continuity exist from:		
61P-W093 pin 4 to 61P-W095B pin u		
61P-W093 pin 99 to 61P-W095B pin E		
61P-W093 pin 69 to 61P-W095B pin U		
61P-W093 pin 75 to 61P-W095B pin HH		
61P-W093 pin 74 to 61P-W095B pin EE? . . . . .	g	d
g. Replace cable assembly (A1-F18AC-740-300, WP025 00) and do step k . . . . .	-	-
h. On wing tip station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 144L or 144R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-U021A or 61P-V029A from Guided Missile Launcher LAU-7( ).		
(4) Open door 159L or 159R (A1-F18AC-LMM-010).		
(5) Disconnect 61P-V019A and 61P-V019B or 61P-U011A and 61P-U011B from Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V).		
(6) Does continuity exist from:		
Station 1,		
61P-U021A pin 25 to 61P-U011B pin 5		
61P-U021A pin 6 to 61P-U011B pin 9		
61P-U021A pin 1 to 61P-U011B pin 8		
61P-U021A pin 26 to 61P-U011B pin 3		
61P-U021A pin 16 to aircraft ground		
or Station 9,		

**Table 4. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set  
FUNCTION SELECT Switch At 2 or 3 (Continued)**

Procedure	No	Yes
61P-V029A pin 25 to 61P-V019B pin 5 61P-V029A pin 6 to 61P-V019B pin 9 61P-V029A pin 1 to 61P-V019B pin 8 61P-V029A pin 26 to 61P-V019B pin 3 61P-V029A pin 16 to aircraft ground? .....	i	j
i. Isolate defective wiring (A1-F18A( )-WDM-000) and do step k .....	-	-
j. Malfunction is caused by one of the items listed below:		
(1) Left or Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k ....	-	-
k. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-U011A		
(2) 61P-U011B		
(3) 61P-V019A		
(4) 61P-V019B		
(5) 61P-U021A		
(6) 61P-V029A		
(7) 61P-W012D		
(8) 61P-W095B		
(9) 61J/P-W093		
(10) Door 144L/R		
(11) Door 159L/R		
(12) Door 502 and 504 .....	-	-

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - GUIDED MISSILE LAUNCHER LAU-7( ), AIM-9 SIDEWINDER TEST PART 2

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: 161353 THRU 161924

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

None

**Table 1. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set FUNCTION  
SELECT Switch At 4, ACQλ Switch OFF**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

**Table 1. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set FUNCTION  
SELECT Switch At 4, ACQλ Switch OFF (Continued)**

<p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>Weapon Station 1, 2, 8 or AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00 or WP047 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items below:</p> <p>Aircraft Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Cable Assembly Guided Missile Launcher LAU-7( ) Left/Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
<p align="center"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>This procedure includes wing tip stations 1 and 9 or wing pylon stations 2 and 8.</p>		
a. Is this trouble at wing tip station? .....	b	i
b. On wing pylon station, do substeps listed below:		

**Table 1. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set FUNCTION  
SELECT Switch At 4, ACQλ Switch OFF (Continued)**

Procedure	No	Yes
<p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 502 and 504 on wing pylon (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012D from Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).</p> <p>(4) Disconnect 61P-W095B from Aircraft Guided Missile Launcher LAU-115C/A.</p> <p>(5) Open door 14R (A1-F18AC-LMM-010).</p> <p>(6) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(7) Does continuity exist from:</p> <p>61P-W012D pin U to 61P-W095B pin C</p> <p>61P-W012D pin r to 61P-W095B pin t</p> <p>61P-W012D pin s to 61P-W095B pin s</p> <p>61P-W012D pin BB to 61P-W095B pin Z</p> <p>61P-W012D pin q to 61P-W095B pin G</p> <p>61P-W012D pin V to 61P-W095B pin W</p> <p>61P-F001B pin 90 to 61P-W095B pin V</p> <p>61P-F001B pin 89 to 61P-W095B pin r? .....</p>	c	d
c. Isolate defective wiring (A1-F18A( )-WDM-000) and do step k .....	-	-
d. Do substeps listed below:		
<p>(1) Disconnect 61P-W093 from 61J-W093 AIR-AIR receptacle on pylon stores electrical disconnect panel.</p> <p>(2) Does continuity exist from:</p> <p>61P-W012D pin U to 61J-W093 pin 53</p> <p>61P-W012D pin r to 61J-W093 pin 61</p> <p>61P-W012D pin s to 61J-W093 pin 60</p> <p>61P-W012D pin BB to 61J-W093 pin 62</p> <p>61P-W012D pin q to 61J-W093 pin 63</p> <p>61P-W012D pin V to 61J-W093 pin 54</p> <p>61P-F001B pin 90 to 61J-W093 pin 55</p> <p>61P-F001B pin 89 to 61J-W093 pin 66? .....</p>	e	f
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k .....	-	-
f. Does continuity exist from:		

**Table 1. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set FUNCTION  
SELECT Switch At 4, ACQλ Switch OFF (Continued)**

Procedure	No	Yes
61P-W093 pin 53 to 61P-W095B pin C 61P-W093 pin 61 to 61P-W095B pin t 61P-W093 pin 60 to 61P-W095B pin s 61P-W093 pin 62 to 61P-W095B pin Z 61P-W093 pin 63 to 61P-W095B pin G 61P-W093 pin 54 to 61P-W095B pin W 61P-W093 pin 55 to 61P-W095B pin V 61P-W093 pin 66 to 61P-W095B pin r? .....	g	h
g. Replace cable assembly (A1-F18AC-740-300, WP025 00) and do step k .....	-	-
h. Malfunction is caused by one of the items listed below:		
(1) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). (2) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). (3) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k ....	-	-
i. On wing tip station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000). (2) Open door 144L or 144R (A1-F18AC-LMM-010). (3) Disconnect 61P-U021A or 61P-V029A from Guided Missile Launcher LAU-7( ). (4) Open door 159L or 159R (A1-F18AC-LMM-010). (5) Disconnect 61P-U011A or 61P-V019A from Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V). (6) Open door 14R (A1-F18AC-LMM-010). (7) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V). (8) Does continuity exist from: Station 1, 61P-U021A pin 18 to 61P-F001B pin 87 61P-U021A pin 19 to 61P-F001B pin 99 61P-U021A pin 21 to 61P-U011A pin 9 61P-U021A pin 23 to 61P-U011A pin 5 61P-U021A pin 18 to 61P-U011A pin 6 61P-U021A pin 18 to 61P-U011A pin 10 61P-U021A pin 18 to 61P-U011A pin 14 61P-U021A pin 16 to aircraft ground?		



**Table 1. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set FUNCTION  
SELECT Switch At 4, ACQλ Switch OFF (Continued)**

Procedure	No	Yes
<p>or Station 9.</p> <p>61P-V029A pin 18 to 61P-F001B pin 79  61P-V029A pin 19 to 61P-F001B pin 78  61P-V029A pin 21 to 61P-V019A pin 9  61P-V029A pin 23 to 61P-V019A pin 5  61P-V029A pin 18 to 61P-V019A pin 6  61P-V029A pin 18 to 61P-V019A pin 10  61P-V029A pin 18 to 61P-V019A pin 14  61P-V029A pin 16 to aircraft ground? .....</p>	c	j
<p>j. Malfunction is caused by one of the items listed below:</p> <p>(1) Left or Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).</p> <p>(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k ....</p>	-	-
<p>k. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 61P-V019A  (2) 61P-U011A  (3) 61P-F001B  (4) 61P-U021A  (5) 61P-V029A  (6) 61P-W095B  (7) 61J/P-W093  (8) 61P-W012D  (9) Door 14R  (10) Door 144L/R  (11) Door 159L/R  (12) Door 502 and 504 .....</p>	-	-

**Table 2. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set  
FUNCTION SELECT Switch At 4, ACQ Switch OFF (Continued)**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 1, 2, 8 or 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00 or WP047 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items below:		
Aircraft Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Cable Assembly Guided Missile Launcher LAU-7( ) Left/Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) Wing Outboard Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 2. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set  
FUNCTION SELECT Switch At 4, ACQ Switch OFF (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>This procedure includes wing tip stations 1 and 9 or wing pylon stations 2 and 8.</p>		
a. Is this trouble at wing tip station? .....	b	i
b. On wing pylon station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 and 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095B from Aircraft Guided Missile Launcher LAU-115C/A.		
(4) Disconnect 61P-W012D from Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).		
(5) Does continuity exist from:		
61P-W012D pin U to 61P-W095B pin C		
61P-W012D pin x to 61P-W095B pin U		
61P-W012D pin V to 61P-W095B pin W .....	c	d
c. Isolate defective wiring (A1-F18A( )-WDM-000) and do step k .....	-	-
d. Do substeps listed below:		
(1) Disconnect 61P-W093 from 61J-W093 AIR-AIR receptacle on pylon stores electrical disconnect panel.		
(2) Does continuity exist from:		
61P-W012D pin U to 61J-W093 pin 53		
61P-W012D pin x to 61J-W093 pin 69		
61P-W012D pin V to 61J-W093 pin 54? .....	e	f
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k .....	-	-

**Table 2. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set  
FUNCTION SELECT Switch At 4, ACQ Switch OFF (Continued)**

Procedure	No	Yes
f. Does continuity exist from:  61J-W093 pin 53 to 61P-W095B pin C 61J-W093 pin 69 to 61P-W095B pin U 61J-W093 pin 54 to 61P-W095B pin W? .....	g	h
g. Replace cable assembly (A1-F18AC-740-300, WP025 00) and do step k .....	-	-
h. Malfunction is caused by one of the items listed below:  (1) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).  (2) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).  (3) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k ....	-	-
i. On wing tip station, do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Open door 144L or 144R (A1-F18AC-LMM-010).  (3) Disconnect 61P-U021A or 61P-V029A from Guided Missile Launcher LAU-7( ).  (4) Open door 159L or 159R (A1-F18AC-LMM-010).  (5) Disconnect 61P-V019A and 61P-V019B or 61P-U011A and 61P-U011B from Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V).  (6) Does continuity exist from:  Station 1,  61P-U021A pin 25 to 61P-U011B pin 5 61P-U021A pin 22 to 61P-U011A pin 13 61P-U021A pin 18 to 61P-U011A pin 14 61P-U021A pin 16 to aircraft ground?  or Station 9,  61P-V029A pin 25 to 61P-V019B pin 5 61P-V029A pin 22 to 61P-V019A pin 13 61P-V029A pin 18 to 61P-V019A pin 14 61P-V029A pin 16 to aircraft ground? .....	c	j
j. Malfunction is caused by one of the items listed below:		

**Table 2. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set  
FUNCTION SELECT Switch At 4, ACQ Switch OFF (Continued)**

Procedure	No	Yes
(1) Left or Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k . . . .	-	-
k. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed or closed:		
(1) 61P-V019A		
(2) 61P-V019B		
(3) 61P-U011A		
(4) 61P-U011B		
(5) 61P-U021A		
(6) 61P-V029A		
(7) 61J/P-W093		
(8) 61P-W095B		
(9) 61P-W012D		
(10) Door 159L/R		
(11) Door 144L/R		
(12) Door 502 and 504 . . . . .	-	-

**Table 3. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set AUDIO  
Switch At HI Or LO**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

**Table 3. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set AUDIO Switch At HI Or LO (Continued)**

Materials Required		
None		
NOTE		
Weapon Station 1, 2, 8 or AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00 or WP047 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items below:		
Aircraft Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Cable Assembly Guided Missile Launcher LAU-7( )		
Procedure	No	Yes
<div style="text-align: center;"><b>CAUTION</b></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>This procedure includes wing tip stations 1 and 9 or wing pylon stations 2 and 8.</p>		
a. Is this trouble at wing tip station? .....	b	i
b. On wing pylon station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 on wing pylon (A1-F18AC-LMM-010).		

**Table 3. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set AUDIO Switch At HI Or LO (Continued)**

Procedure	No	Yes
<p>(3) Disconnect 61P-W095B from Aircraft Guided Missile Launcher LAU-115C/A.</p> <p>(4) Open door 14R (A1-F18AC-LMM-010).</p> <p>(5) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(6) Does continuity exist from:</p> <p style="padding-left: 40px;">Station 2,</p> <p style="padding-left: 80px;">61P-W095B pin V to 61P-F001B pin 100</p> <p style="padding-left: 80px;">61P-W095B pin r to 61P-F001B pin 101</p> <p style="padding-left: 40px;">or Station 8,</p> <p style="padding-left: 80px;">61P-W095B pin V to 61P-F001B pin 89</p> <p style="padding-left: 80px;">61P-W095B pin r to 61P-F001B pin 90? .....</p>	c	e
c. Do substeps listed below:		
<p>(1) Disconnect 61P-W093 from 61J-W093 AIR-AIR receptacle on pylon stores electrical disconnect panel.</p> <p>(2) Does continuity exist from:</p> <p style="padding-left: 40px;">61P-W095B pin V to 61P-W093 pin 55</p> <p style="padding-left: 40px;">61P-W095B pin r to 61P-W093 pin 66? .....</p>	d	f
d. Replace cable assembly (A1-F18AC-740-300, WP025 00) and do step k .....	-	-
e. Malfunction is caused by one of the items listed below:		
<p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>(2) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).</p> <p>(3) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k ....</p>	-	-
f. Do substeps listed below:		
<p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist from:</p> <p style="padding-left: 40px;">Station 2,</p>		

**Table 3. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set AUDIO Switch At HI Or LO (Continued)**

Procedure	No	Yes
52J-U062 pin 33 to 61P-F001B pin 100 52J-U062 pin 44 to 61P-F001B pin 101  or Station 8,  52J-V068 pin 33 to 61P-F001B pin 89 52J-V068 pin 44 to 61P-F001B pin 90? .....	g	h
g. Isolate defective wiring (A1-F18A( )-WDM-000) and do step k .....	-	-
h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k .....	-	-
i. On wing tip station do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 144L or 144R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-U021A or 61P-V029A from Guided Missile Launcher LAU-7( ).		
(4) Open door 14R (A1-F18AC-LMM-010).		
(5) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(6) Does continuity exist from:		
Station 1,		
61P-U021A pin 18 to 61P-F001B pin 87 61P-U021A pin 19 to 61P-F001B pin 99		
or Station 9,		
61P-V029A pin 18 to 61P-F001B pin 79 61P-V029A pin 19 to 61P-F001B pin 78? .....	g	j
j. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k ....	-	-
k. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-U021A		
(2) 61P-V029A		



**Table 3. SELECTED FUNCTION, GO Lamp Does Not Come On, Test Set AUDIO  
Switch At HI Or LO (Continued)**

Procedure	No	Yes
(3) 61J/P-W093		
(4) 61P-W095B		
(5) 61P-F001B		
(6) Door 14R		
(7) Door 144L/R		
(8) Aircraft Wing Pylon SUU-63( )		
(9) Door 502 .....	-	-

Table 4. Flowmeter Does Not Indicate Flow Above 25

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 1, 2, 8 or AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00 or WP047 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items below:		
Aircraft Guided Missile Launcher LAU-115C/A		
Aircraft Wing Pylon SUU-63( )		
Aircraft Wiring		
Cable Assembly		
Guided Missile Launcher LAU-7( )		
Left/Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)		
Wing Outboard Pylon Command signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 4. Flowmeter Does Not Indicate Flow Above 25 (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>This procedure includes wing tip stations 1 and 9 or wing pylon stations 2 and 8.</p>		
a. Is this trouble at wing tip station? .....	b	h
b. On wing pylon station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 and 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).		
(4) Disconnect 61P-W095B from Aircraft Guided Missile Launcher LAU-115C/A.		
(5) Does continuity exist from:		
61P-W012D pin y to 61P-W095B pin H		
61P-W012D pin EE to 61P-W095B pin q		
61P-W012D pin c to 61P-W095B pin EE? .....	c	d
c. Do substeps listed below:		
(1) Disconnect 61P-W093 from 61J-W093 AIR-AIR receptacle on pylon stores electrical disconnect panel.		
(2) Does continuity exist from:		
61P-W012D pin y to 61J-W093 pin 59		
61P-W012D pin EE to 61J-W093 pin 76		
61P-W012D pin c to 61J-W093 pin 74? .....	e	f
d. Malfunction is caused by one of the items listed below:		
(1) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		

Table 4. Flowmeter Does Not Indicate Flow Above 25 (Continued)

Procedure	No	Yes
(2) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).		
(3) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k . . . .	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k . . . . .	-	-
f. Does continuity exist from:		
61P-W093 pin 59 to 61P-W095B pin H		
61P-W093 pin 76 to 61P-W095B pin q		
61P-W093 pin 74 to 61P-W095B pin EE? . . . . .	g	d
g. Replace cable assembly (A1-F18AC-740-300, WP025 00) and do step k . . . . .	-	-
h. On wing tip station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 144L or 144R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-U021A or 61P-V029A from Guided Missile Launcher LAU-7( ).		
(4) Open door 159L or 159R (A1-F18AC-LMM-010).		
(5) Disconnect 61P-V019B or 61P-U011B from Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V).		
(6) Does continuity exist from:		
Station 1,		
61P-U021A pin 20 to 61P-U011B pin 15		
61P-U021A pin 26 to 61P-U011B pin 3		
61P-U021A pin 16 to aircraft ground		
or Station 9,		
61P-V029A pin 20 to 61P-V019B pin 15		
61P-V029A pin 26 to 61P-V019B pin 3		
61P-V029A pin 16 to aircraft ground? . . . . .	i	j
i. Isolate defective wiring (A1-F18A( )-WDM-000) and do step k . . . . .	-	-
j. Malfunction is caused by one of the items listed below.		
(1) Left or Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step k . . . .	-	-

**Table 4. Flowmeter Does Not Indicate Flow Above 25 (Continued)**

Procedure	No	Yes
k. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 61P-U011B		
(2) 61P-V019B		
(3) 61P-U021A		
(4) 61P-V029A		
(5) 61P-W012D		
(6) 61P-W095B		
(7) 61J/PW093		
(8) Door 144L/R		
(9) Door 159L/R		
(10) Door 502 and 504 .....	-	-

**Table 5. Status Not Displayed on DDI For Selected AIM-9**

<p align="center"><b>Support Equipment Required</b></p> <p align="center">None</p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>AIM-9 Sidewinder Avionic Interface Schematic (A1-F18AC-740-500, WP036 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items below:</p> <p>Armament Computer CP-1342/AYQ-9(V)</p> <p>Digital Data Computer No. 2</p> <p>Digital Display Indicator IP-1317( )</p>
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**Table 5. Status Not Displayed on DDI For Selected AIM-9 (Continued)**

Procedure	No	Yes
a Do substeps listed below:		
(1) On LDDI, press MENU pushbutton switch.		
(2) On LDDI, press STORES pushbutton switch.		
(3) On master arm control panel assembly, set MASTER switch to ARM.		
(4) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(5) Is display correct on LDDI? .....	b	c
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) .....	-	-
c. Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-746-300, WP004 00) .....	-	-

**Table 6. Status Not Displayed on HUD For Selected AIM-9**

<p align="center"><b>Support Equipment Required</b></p> <p align="center">None</p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>AIM-9 Sidewinder Avionic Interface Schematic (A1-F18AC-740-500, WP036 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items below:</p> <p>    Armament Computer CP-1342/AYQ-9(V)</p> <p>    Digital Data Computer No. 2</p> <p>    Head-Up Display Unit AN/AVQ-28</p>		
Procedure	No	Yes
a. Do substeps listed below:		

**Table 6. Status Not Displayed on HUD For Selected AIM-9 (Continued)**

Procedure	No	Yes
(1) On MC/HYD ISOL control panel assembly, set MC switch to NORM. (2) On RDDI, press MENU pushbutton switch. (3) On RDDI, press STORES pushbutton switch. (4) On master arm control panel assembly, (a) Press and release A/A switch. (b) Set MASTER switch to ARM. (5) On nose wheelwell maintenance panel, set ARMAMENT OVERRIDE switch to OVERRIDE. (6) Is display correct on RDDI? .....		
b. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) .....	-	-
c. Replace Head-Up Display Unit AN/AVQ-28 (A1-F18AC-745-300, WP003 00) .....	-	-





## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING - AIM-9 WEAPON SYSTEM END TO END TEST

## SUSPENSION AND RELEASE MECHANISMS

EFFECTIVITY: WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A AND UP AND  
DIGITAL DATA COMPUTER CONFIG/IDENT 85A AND UP (A1-F18AC-SCM-000)

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Stores Management System Circuit Breakers .....	WP008 00
Stores Management System and Suspension and Release Mechanisms Locator .....	WP007 00

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECF-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. AIM-9 End to End Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<b>System Required Components</b>		
All system components installed.		
<b>Related Systems Required</b>		
Avionics Cooling System		
Electrical Systems		
Maintenance Status Display and Recording System		
Mission Computer System		
Multipurpose Display Group		
<b>Support Equipment Required</b>		
<b>NOTE</b>		
Alternate item type designations or part numbers are listed in parentheses.		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
74D750051-1003	Test Set Aircraft Wiring	
(74D750051-1001)	AN/AWM-100	
58A164D798	Detent Wrench/Safety	
	Pin (Slotted)	
GMU-24A/A	Flowmeter	
(61A91D100)		
<b>Materials Required</b>		
None		
<b>NOTE</b>		
Component locations are shown in WP007 00.		
AIM-9 End to End maintenance BIT displays are shown on figure 1.		
End to End Test displays are shown on figure 2.		
Test equipment hookup is shown on figure 3.		
1. STORES SAFETY INSPECTION (A1-F18AE-LWS-000).		

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p>To prevent death or injury to personnel, all live weapons and explosive cartridges must be removed from aircraft and gun must be safetied before doing this test.</p>		
<p>a. Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>b. Make sure all weapons are removed from aircraft. Fuel tanks, bomb racks, and launchers may remain installed.</p> <p>c. Make sure all explosive cartridges are removed from cartridge chambers for all Aircraft Bomb Ejector Racks BRU-32( ) installed on aircraft.</p> <p>d. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Bomb Ejector Racks BRU-33( ) if installed on aircraft.</p> <p>e. Make sure all explosive cartridges are removed from cartridge chambers on Aircraft Guided Missile Launcher LAU-116( ) AIM-7 fuselage stations if installed on aircraft.</p> <p>f. Make sure all Aircraft Guided Missile Launcher LAU-116( ) hooks are closed and SAFETY RELEASE knob is rotated clockwise.</p> <p>g. Make sure all explosives are removed from breeches on Multiple Ejector Racks (MER) BRU-41 and BRU-42 if installed on aircraft.</p>	<p>SAFETY RELEASE INDICATOR shows GREEN - HOOKS LOCKED.</p>	<p>1. With hooks closed, rotate SAFETY RELEASE knob clockwise.</p> <p>2. If knob will not rotate, replace Aircraft Guided Missile Launcher LAU-116( ) (A1-F18AC-740-300, WP026 00).</p>

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>h. If gun is installed, make sure gun electrical signal safety switch is set to safe (extended) position, aft of door 6.</p> <p>i. If gun is installed, make sure gun holdback mechanism handle is set to be cleared; gun holdback handle indicator (extended).</p> <p>j. Make sure AN/ALE-39 dispensers are removed from aircraft.</p> <p>2. TEST EQUIPMENT HOOKUP.</p> <p>a. To test Guided Missile Launcher LAU-7( ), do substeps below:</p> <p>(1) Remove AIM-9-test adapter, cable and slotted detent wrench from container.</p> <p>(2) Remove launcher detent holddown pin.</p> <p>(3) Insert AIM-9 test adapter striker block in slot of launcher rail.</p> <p>(4) Insert and rotate slotted detent wrench, lifting launcher detent firing points.</p> <p>(5) Slide striker block forward to align launcher detent firing points.</p> <p>(6) Rotate slotted detent wrench to lower launcher detent firing points into engagement with the striker block contacts. Leave slotted detent wrench installed.</p> <p>(7) Connect cable to AIM-9 test adapter.</p> <p>(8) Open forward cover on applicable LAU-7( ) launcher.</p>		

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>(9) Connect AIM-9 test adapter cable to launcher umbilical connector and continue with PRE-LIMINARY steps.</p> <p><b>2</b> b. To test Aircraft Guided Missile Launcher LAU-127A/A do substeps listed below:</p> <p>(1) Remove AIM-9 test adapter AN/AWM-100 and cable from container.</p> <p>(2) Make sure IFL is in LOCKED position.</p> <p>(3) Use 3/8 square drive, rotate forward fairing actuator to OPEN. Slide fairing forward for access to AIM-9 connector.</p> <p>(4) Use 3/8 square drive, rotate FWD DETENT to ENGAGE (lowered position).</p> <p>(5) Use 3/8 square drive, make sure the items listed below are retracted:</p> <p>AIM-120 UMBILICAL AIM-9 STRIKER AFT DETENT AFT DAMPENER.</p> <p>(6) Insert AIM-9 test adapter AN/AWM-100 striker block in FWD HOOK ENTRY slot of launcher rail.</p> <p>(7) Slide striker block forward to align launcher detent firing points.</p> <p>(8) Use 3/8 square drive, rotate AIM-9 STRIKER to ENGAGE to lower launcher detent firing points into engagement with the striker block contacts.</p>		

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>(9) Use 3/8 square drive, rotate AFT DETENT to ENGAGE.</p> <p>(10) Connect cable to AIM-9 test adapter and launcher umbilical connector and continue with PRELIMINARY steps.</p> <p>3. PRELIMINARY.</p> <p>a. Open door 14R (A1-F18AC-LMM-010).</p> <p>b. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT, L/R INBD/OUTBD switches to 80 for station being checked and WING TIP switch to 9.</p> <p>c. If fuel tank is installed, set applicable ARMAMENT switch to 01.</p> <p>d. If BRU-33( ), BRU-41, BRU-42, MER, or empty BRU-32 or MER bomb rack is installed, open hooks and set applicable ARMAMENT switches to 00. Set remaining FUZING and ARMAMENT switches to zero.</p> <p>e. On Digital Display Indicator ID-2150/ASM-612 in nose wheelwell, look at WPN SYS FAIL indicator.</p> <p>f. Connect ground intercommunications hookup (A1-F18AC-LMM-000).</p> <p>g. On MC/HYD ISOL control panel assembly, set MC switch to NORM.</p> <p>h. Make sure SNSR pod control box panel assembly RADAR switch is OFF.</p> <p>i. Apply electrical power (A1-F18AC-LMM-000).</p>	<p>WPN SYS FAIL indicator is black (not latched).</p>	<p>If latched, do built-in test/reset procedure (A1-F18AC-LMM-000).</p>
<p><b>NOTE</b></p> <p>If malfunction occurs during this test, make sure circuit breakers shown in WP008 00 are closed.</p>		

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
j. On GND PWR control panel assembly, set and hold 1 and 2 switches to B ON for 3 seconds.	Switches remain on (latched).	<p>1. If switches unlatch in 10 to 30 seconds, apply external cooling air to aircraft (A1-F18AC-LMM-000).</p> <p>2. If switches will not remain on, do GND PWR Switching System Test (A1-F18AC-420-200, WP006 00).</p> <p>3. If one but not all switches remain on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).</p>
k. On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm-up. Adjust BRT and CONT controls for best display.	<p>1. LDDI and RDDI have displays and center pushbutton switch on bottom row is labeled MENU.</p> <p>2. LDDI has caution and advisories displayed.</p>	<p>1. No display on LDDI, F/A-18A, do table 1 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 1 (A1-F18AC-745-200, WP007 00).</p> <p>2. No display on RDDI, F/A-18A, do table 2 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP007 00).</p> <p>3. If STANDBY is displayed, F/A-18A, do table 2 (A1-F18AC-745-200, WP004 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP005 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>
1. On RDDI, press MENU pushbutton switch.	Menu display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
2. On RDDI, press and release MENU pushbutton switch until SUPT Menu is displayed.	SUPT Menu display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>1 n. On RDDI, press BIT pushbutton switch.</p>	BIT control display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
<p>2 o. On RDDI, press BIT pushbutton switch, then press STORES pushbutton switch.</p>	STORES BIT display appears on RDDI	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
<p>1 p. On LDDI, press MENU pushbutton switch.</p>	Menu display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
<p>2 q. On LDDI, press and release MENU pushbutton switch until TAC Menu is displayed.</p>	TAC Menu display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
<p>r. On LDDI, press STORES pushbutton switch.</p>	Stores display appears on LDDI.	Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
<p>s. On master arm control panel assembly, set MASTER switch to ARM.</p>		
<p>t. On nose wheelwell maintenance panel set ARMAMENT OVERRIDE switch to OVERRIDE.</p>	Switch remains engaged.	Do table 1 (WP012 00).
4. SMS POWER UP BIT.		

**NOTE**

If Command Launch Computer CP-1001( )/AWG (CLC) is not installed on aircraft, CLC status message display remains NOT RDY. If CLC is not installed, omit steps which refer to CLC status message displays.

WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; When troubleshooting, maintenance codes are displayed on Digital Display Indicator ID-2150/ASM-612 (nose wheelwell DDI, left side) (A1-F18AC-LMM-000). Read and record maintenance codes.

WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; When troubleshooting, maintenance codes are displayed on the cockpit Digital Display Indicators ID-1317( ) (LDDI and RDDI) in hexadecimal and on the Digital Display Indicator ID-2150/ASM-612 (nose wheelwell DDI, left side) (A1-F18AC-LMM-000) in decimal. Read and record the maintenance codes displayed in the cockpit.



Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>a. On RDDI, observe SMS and CLC BIT status message displays.</p> <p>b. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds. Observe SMS status message display.</p>	<p>SMS and CLC status message displays are NOT RDY.</p> <p>1. Within 20 seconds, SMS BIT status message NOT RDY is removed and SF TEST is displayed.</p> <p>2. Within 220 seconds after SF TEST is displayed, SMS BIT status message is <input type="checkbox"/> 1 GO, or <input type="checkbox"/> 2 PBIT GO.</p> <p>3. ARM is displayed on RDDI stores display.</p> <p>4. On RDDI, <input type="checkbox"/> 1 7F or 9M or <input type="checkbox"/> 2 7F or 9M appears in the wingform for the pylon station being checked.</p> <p>5. LOAD fault advisory is not displayed on LDDI.</p>	<p>Replace Digital Data Computer No. 1 (A1-F18AC-741-300, WP003 00).</p> <p>1. If SMS remains NOT RDY, do table 1 (WP010 01).</p> <p>2. If SMS does not display SF TEST, replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>1. If SMS display is <input type="checkbox"/> 1 NO GO, or <input type="checkbox"/> 2 MUX FAIL replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>2. If SMS display is DEGD, read maintenance code(s) in cockpit and do table 1 (WP010 00).</p> <p>3. If SMS display is <input type="checkbox"/> 1 DEGD OH, or <input type="checkbox"/> 2 DEG OVRHT, set 3 switch on GND PWR panel to AUTO and do table 2 (WP010 02).</p> <p>4. If SMS display is <input type="checkbox"/> 1 OH, or <input type="checkbox"/> 2 OVRHT, set 3 switch on GND PWR panel to AUTO and do table 1 (WP010 02).</p> <p>Do table 1 (WP010 17).</p> <p>Do table 1 (WP037 03).</p> <p>Correct load fault advisory (A1-F18AC-FRM-000).</p>
5. SMS MAINTENANCE BIT.		

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>Maintenance BIT test can be started after SF TEST is complete.</p> <p>Pressing MENU, BIT, or STOP pushbutton switch on RDDI stops BIT.</p> <p>HARM functions are not tested during this test, WPNS BIT status message remains NOT READY.</p>		
a. On RDDI, press MAINT pushbutton switch.	Maintenance BIT control display appears on RDDI.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
<p align="center"><b>NOTE</b></p> <p>During switch test steps c thru f, GO will appear after all functions of the switch have been completed. If GO does not appear, switch function did not operate correctly.</p>		
b. On RDDI, press SMS pushbutton switch.	<p>1. IN TEST appears for SMS on SMS maintenance BIT control display.</p> <p>1 2. Within 180 seconds, SJET, PCKL, TRIG, and SSP appear above BIT status messages display.</p> <p>2 3. Within 240 seconds SJET, PCKL, TRIG, and SSP appear below BIT status messages.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p>
c. On LH vertical console control panel, set SELECT JETT switch momentarily to positions as listed:	GO appears after SJET display.	Do table 2 (WP012 00).
L FUS MSL R FUS MSL RACK LCHR STORES SAFE JETT (CENTER PUSH)		
d. On aircraft controller grip assembly, press and release A/G weapon release switch.	GO appears after PCKL display.	Do table 4 (WP012 00).
e. On aircraft controller grip assembly, press and release gun/ A/A missile trigger switch.	GO appears after TRIG display.	Do table 4 (WP013 00).

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
f. On flaps, landing gear and stores indicator panel, press CTR, LI, RI, LO and RO switches to ON.	GO appears after SSP display and switch lights come on.	Do table 2 (WP013 00).
g. On flaps landing gear and stores indicator panel, press CTR, LI, RI, LO, and RO switches to off.	CTR, LI, RI, LO, and RO switch lights go off.	Replace Flaps, Landing Gear and Stores Indicator Panel (A1-F18AC-740-300, WP014 00).
<p style="text-align: center;"><b>NOTE</b></p> <p>1 For stations 1, 2L, 8L, and 9, do 6a thru 6e. For stations 2R and 8R, do 7a thru 7f.</p> <p>2 For LAU-7( ), do steps 8a thru 8e. For LAU-127A/A, do steps 9a thru 9c.</p>		
1 6. END TO END TEST, STATIONS 1, 2L, 8L AND 9.		
<p style="text-align: center;"><b>NOTE</b></p> <p>During this test, if Normal Indication display is wrong and remedy refers to a table, do not shut down system or remove test adapter. Do applicable troubleshooting table.</p> <p>When more than one weapon station has a AIM-9 test adapter installed, testing will start with station 1. Stations with AIM-9 test adapter will be tested in this sequence, station 1, 2 left, 8 left and 9.</p> <p>With LOAD fault advisory displayed or MASTER switch set to SAFE, test will not start.</p>		
a. On right throttle grip, press and release cage/uncage switch.	1. Station 2 or 8, 9M weapon display is removed and TST is displayed for station 1, 2, 8, or 9.	<p>1. Station 1, do table 2 (WP037 03).</p> <p>2. Station 2, do table 3 (WP037 03).</p> <p>3. Station 8, do table 4 WP037 03).</p> <p>4. Station 9, do table 5 (WP037 03).</p>

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
	2. Maintenance BIT switches SJET, PCKL, TRIG, and SSP are removed during test and appear at end of test.	Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).
	3. Within 30 seconds, STBY appears under TST (test in progress)	Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).
<p style="text-align: center;"><b>NOTE</b></p> <p>Fail indicates no voltage at launcher striker due to slotted detent wrench being installed in launcher.</p>		
	4. Within 60 seconds, FAIL appears under TST (normal indication)	<p>1. Display remains STBY replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>2. Do steps 6b and 6c.</p> <p style="padding-left: 20px;">a. If step 6c normal indication is RDY, replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).</p> <p style="padding-left: 20px;">b. If step 6c normal indication is FAIL, troubleshoot FAIL display per step 6c.</p>
<p>b. Remove slotted detent wrench from LAU-7( ) launcher.</p> <p>c. On right throttle grip, press and release cage/uncage switch.</p>	1. TST is displayed for station under test.	<p>If TST is not displayed:</p> <p>1. Station 1, do table 2 (WP037 03).</p> <p>2. Station 2, do table 3 (WP037 03).</p> <p>3. Station 8, do table 4 (WP037 03).</p> <p>4. Station 9, do table 5 (WP037 03).</p>


Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
	2. Maintenance BIT switches SJET, PCKL, TRIG, and SSP are removed during test and appear at end of test.	Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).
	3. Within 30 seconds, STBY appears under TST (test in progress).	Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).
<p style="text-align: center;"><b>NOTE</b></p> <p>RDY indication for station 2 left or 8 left will disappear after a few seconds to allow testing of station 2 right or 8 right.</p>		
<p>d. When AIM-9 test adapter is moved to another station for testing, do substeps below:</p> <p style="padding-left: 40px;">(1) Do SHUTDOWN steps 11a thru 11g.</p> <p style="padding-left: 40px;">(2) Repeat testing, starting with TEST EQUIPMENT HOOKUP.</p> <p>e. Do NITROGEN FLOW TEST for station tested or do SHUTDOWN.</p> <p><b>1</b> 7. END TO END TEST, STATIONS 2R AND 8R.</p>	4. Within 60 seconds, RDY appears under TST (test completed).	Display is FAIL, do table 1 (WP037 04).
<p style="text-align: center;"><b>NOTE</b></p> <p>During this test, if Normal Indication display is wrong and remedy refers to a table, do not shut down system or remove test adapter. Do applicable troubleshooting table.</p> <p>When more than one weapon station has an AIM-9 test adapter installed, testing will start with station 2. Stations with AIM-9 test adapter will be tested in this sequence, station 2 right, and 8 right.</p> <p>With LOAD fault caution displayed or MASTER switch set to SAFE, test will not start.</p>		

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>a. On right throttle grip, press and release cage/uncage switch.</p> <p>b. On stations 2R or 8R, install slotted detent wrench in LAU- 7( ) launcher.</p> <p>c. On right throttle grip, press and release cage/uncage switch.</p>	<p>1. TST is displayed for station under test.</p> <p>2. Within 30 seconds, STBY appears under TST (test in progress).</p> <p>3. Within 60 seconds, RDY appears under TST (test completed).</p>	<p>1. Station 2, do table 3 (WP037 03).</p> <p>2. Station 8, do table 4 (WP037 03).</p> <p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>Display is FAIL, do table 1 (WP037 04).</p>
	<p>1. Station 2 or 8, 9M weapon display is removed and TST is displayed for station 2 or 8.</p> <p>2. Within 30 seconds, STBY appears under TST (test in progress).</p>	<p>1. Station 2, do table 3 (WP037 03).</p> <p>2. Station 8, do table 4 (WP037 03).</p> <p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>Fail indicates no voltage at launcher striker due to slotted detent wrench being installed in launcher.</p>		
	<p>3. Within 60 seconds, FAIL appears under TST (normal indication).</p>	<p>1. Display remains STBY replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>2. Do steps 7d and 7e.</p> <p>a. If step 7e normal indication is RDY, replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).</p> <p>b. If step 7e normal indication is FAIL, troubleshoot FAIL display per step 7e.</p>

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>d. Remove slotted detent wrench from LAU-7( ) launcher.</p> <p>e. On right throttle grip, press and release cage/uncage switch.</p> <p>f. When AIM-9 test adapter is moved to another station for testing, do substeps below:</p> <p>(1) Do SHUTDOWN steps 11a thru 11g.</p> <p>(2) Repeat testing, starting with TEST EQUIPMENT HOOKUP.</p> <p>g. Do NITROGEN FLOW TEST for station tested or do SHUTDOWN.</p> <p> 8. END TO END TEST, LAU-7( ).</p>	<p>1. TST is displayed for station under test.</p> <p>2. Maintenance BIT switches SJET, PCKL, TRIG, and SSP are removed during test and appear at end of test.</p> <p>3. Within 30 seconds, STBY appears under TST (test in progress).</p> <p>4. Within 60 seconds, RDY appears under TST (test completed).</p>	<p>If TST is not displayed:</p> <p>1. Station 2, do table 3 (WP037 03).</p> <p>2. Station 8, do table 4 (WP037 03).</p> <p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>Display is FAIL, do table 1 (WP037 04).</p>

**NOTE**

During this test, if Normal Indication display is wrong and remedy refers to a table, do not shut down system or remove test adapter. Do applicable troubleshooting table.

When more than one weapon station has an AIM-9 test adapter installed, testing starts with station 1. Stations with AIM-9 test adapter are tested in numerical sequence.

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>With LOAD fault advisory displayed or MASTER switch set to SAFE, test will not start.</p> <p>Primary weapon interface checked in DIGITAL DATA COMPUTER CONFIG/IDENT 15C is AIM-9X. AIM-9L/M interface is also checked, however, only weapon ID "9X" is displayed.</p> <p>Possible test indications for DIGITAL DATA COMPUTER CONFIG/IDENT 15C are: SEL: Indicates weapon station checks good for AIM-9L/M or, if properly configured with LAU-7D/A AIM-9X. WDEGD: Indicates weapon station has failed for AIM-9X and is good for AIM-9L/M only. WFAIL: Indicates weapon station has failed for AIM-9XL/M.</p>		
a. On right throttle grip, press and release cage/uncage switch.	<p>1. Within 240 seconds SJET, PCKL, TRIG, SSP and ATRIG (Reserved for Laser Trigger Status Right Rear Hand Controller) appears below BIT status messages display.</p> <p>2. On LDDI 9M on wingform display for station 2 or 8 is removed.</p> <p>3. Within 30 seconds, on LDDI TEST 9X (and /L or /R for pylon stations) is displayed and STBY appears under TST (test in progress) for station under test.</p>	<p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>Do table 6 (WP037 03).</p> <p>Do table 6 (WP037 03).</p>
<p align="center"><b>NOTE</b></p> <p>Fail indicates no voltage at launcher striker due to slotted detent wrench being installed in launcher.</p>		
	<p>4. Within 60 seconds, on LDDI WFAIL appears under TEST 9X (normal indication) for stations with detent wrench installed.</p>	<p>1. Display remains STBY, replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>2. Do steps 8b and 8c.</p> <p>a. If step 8c normal indication is RDY, replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).</p>



Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>b. Remove slotted detent wrench from LAU-7( ) launcher.</p> <p>c. On right throttle grip, press and release cage/uncage switch.</p> <p>d. When AIM-9 test adapter is moved to another station for testing, do substeps below:</p> <p>(1) Do SHUTDOWN steps 11a thru 11f.</p> <p>(2) Leave the detent wrench installed.</p> <p>(3) Repeat testing, starting with TEST EQUIPMENT HOOKUP.</p> <p>e. Do NITROGEN FLOW TEST for station tested or do SHUTDOWN (this WP).</p> <p>9. END TO END TEST, LAU-127A/A.</p>	<p>1. Within 30 seconds, on LDDI TEST 9X (and /L or /R for pylon stations) is displayed and STBY appears under TST (test in progress) for station under test.</p> <p>2. Within 60 seconds, on LDDI WDEGD (-9, -9M) or SEL (-9X, -9L, -9M) appears under TEST 9X (test completed).</p>	<p>b. If step 8c normal indication is WFAIL, troubleshoot WFAIL display per step 8c.</p> <p>Do table 6 (WP037 03).</p> <p>Display is WFAIL, do table 1 (WP037 04).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>During this rest, if Normal Indication display is wrong and remedy refers to a table, do not shut down system or remove test adapter. Do applicable troubleshooting table.</p> <p>When more than one weapon station has an AIM-9 test adapter installed, testing starts with station 2. Stations with AIM-9 test adapter are tested in numerical sequence.</p>		

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>NOTE</b></p> <p>With LOAD fault advisory displayed or MASTER switch set to SAFE, test will not start.</p> <p>Primary weapon interface checked in DIGITAL DATA COMPUTER CONFIG/IDENT 15C is AIM-9X. AIM-9L/M interface is also checked, however, only weapon ID "9X" is displayed.</p> <p>Possible test indications for DIGITAL DATA COMPUTER CONFIG/IDENT 15C are: SEL: Indicates weapon station checks good for AIM-9L/M or, if properly configured with LAU-7D/A AIM-9X. WDEGD: Indicates weapon station has failed for AIM-9X and is good for AIM-9L/M only. WFAIL: Indicates weapon station has failed for AIM-9XL/M.</p>		
a. On right throttle grip, press and release cage/uncage switch.	<p>1. Within 240 seconds SJET, PCKL, TRIG, SSP and ATRIG (Reserved for Laser Trigger Status Right Rear Hand Controller) appears below BIT status messages display.</p> <p>2. On LDDI 9M on wingform display for station 2 or 8 is removed.</p> <p>3. Within 30 seconds, on LDDI TEST 9X (and /L or /R for pylon stations) is displayed and STBY appears under TEST 9X (test in progress) for station under test.</p> <p>4. Within 60 seconds, on LDDI WDEGD (-9L, -9M) or SEL (-9X, -9L, -9M) (test completed).</p>	<p>Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>Do table 6 (WP037 03).</p> <p>Do table 6 (WP037 03).</p> <p>Display is, WFAIL, do table 1 (WP037 04).</p>
<p>b. When AIM-9 test adapter is moved to another station for testing, do substeps below:</p> <p>(1) Do SHUTDOWN steps 11a thru 11f.</p> <p>(2) Repeat testing, starting with TEST EQUIPMENT HOOKUP.</p> <p>c. Do NITROGEN FLOW TEST for station tested or do SHUTDOWN.</p>		



Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>10. NITROGEN FLOW TEST.</p> <p>a. On GND PWR control panel assembly, set 3 switch to AUTO.</p> <p>b. Remove AIM-9 test adapter cable from launcher umbilical connector.</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">A serviced nitrogen receiver is required for steps 10c thru 10g.</p>		
<p>c. Remove flowmeter from case and connect flowmeter to launcher umbilical connector of station under test.</p> <p>d. On Armament Computer CP-1342/AYQ-9(V), set ARMAMENT, L OUTBD and R OUTBD switches to 80 or WING TIP switch to 5 for station 1, or 6 for station 9, set remaining switches to zero.</p> <p>e. On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds. (Allow Stores Maintenance System warmup time.)</p> <p>f. On map gain control panel assembly, set IR COOL switch to ORIDE.</p> <p>g. Set IR COOL switch to OFF.</p> <p>h. On GND PWR control panel assembly, set 3 switch to AUTO.</p> <p>i. Remove flowmeter from launcher umbilical connector and stow flowmeter in case.</p>	<p>1. BIT display appears with SMS GO when BIT is complete.</p> <p>2. BIT control display appears. PBIT GO displayed below STORES when BIT complete. WDEGD appears in the wingform under the station being checked.</p> <p>Flow indication is above 25 on flowmeter.</p> <p>Flow indication is 0.</p>	<p>Do table 4 (WP037 01).</p> <p>Replace map gain control panel assembly (A1-F18AC-742-300, WP016 00).</p>

Table 1. AIM-9 End to End Test (Continued)

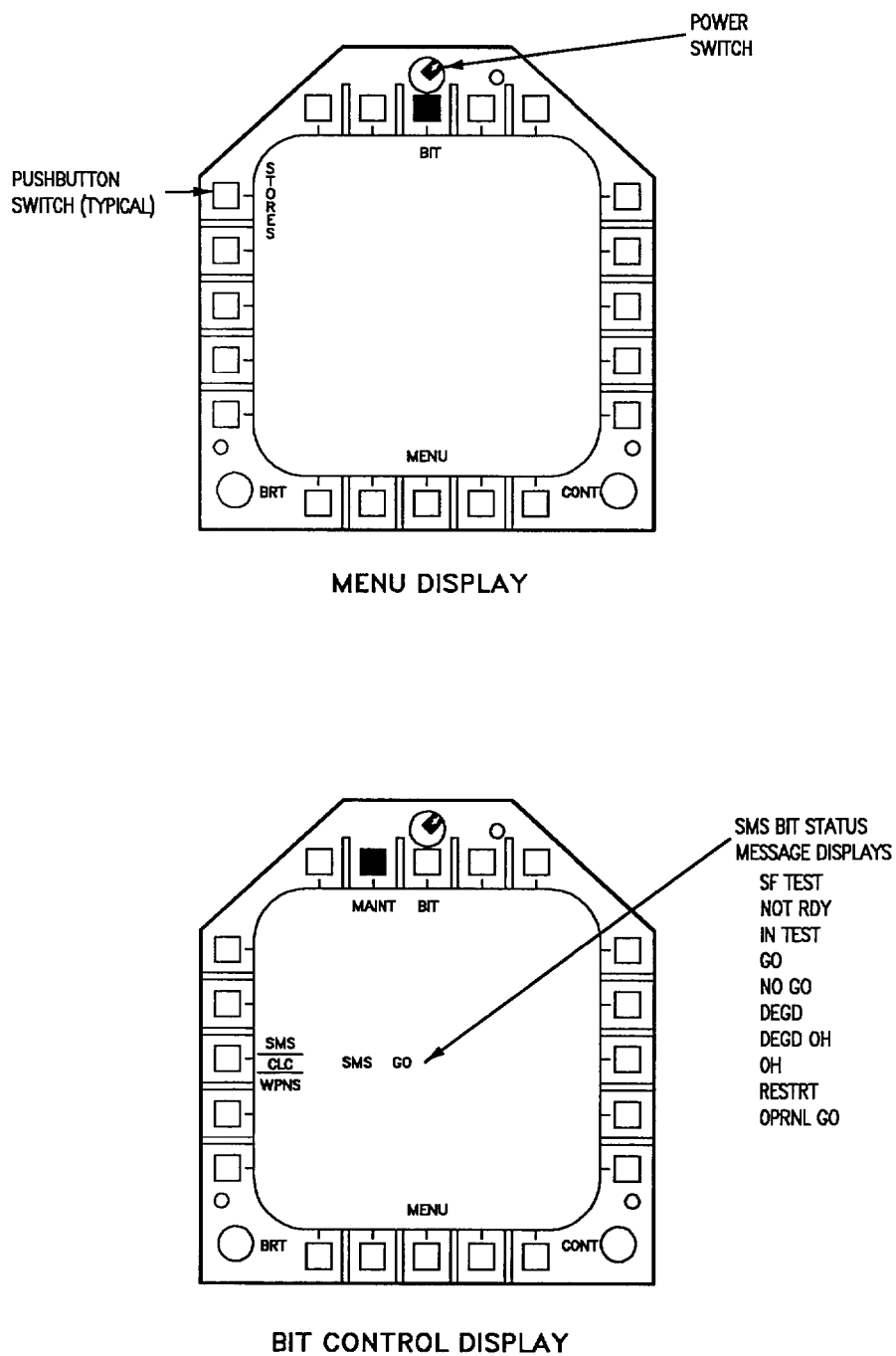
Procedure	Normal Indication	Remedy for Abnormal Indication
<p>j. If other stations are tested, repeat steps 10b thru 10i for next station. If no other station is tested, do SHUT-DOWN steps.</p> <p>11. SHUTDOWN.</p> <p>a. On master arm control panel assembly, set MASTER switch to SAFE.</p> <p>b. On LDDI and RDDI, set power switch to OFF.</p> <p>c. On GND PWR control panel assembly, set 3, 2 and 1 switches to AUTO.</p> <p>d. For LAU-7( ) launcher, do sub-steps below:</p> <p>(1) Insert slotted detent wrench in LAU-7( ) launcher.</p> <p>(2) Rotate slotted detent wrench and remove AIM-9 test adapter aft striker block from LAU-7( ) launcher rail.</p> <p>(3) Remove slotted detent wrench and install detent holddown pin in LAU-7( ) launcher.</p> <p>e. For LAU-127A/A launcher, do substeps below:</p> <p>(1) Use 3/8 square drive to disengage (raise) AFT DETENT and AIM-9 STRIKER.</p> <p>(2) Remove AIM-9 test adapter aft striker block from launcher rail at FWD HOOK ENTRY slot.</p> <p>f. Turn off electrical power (A1-F18AC-LMM-000).</p>	<p>1. SAFE displayed on LDDI.</p> <p>2. ARMAMENT OVERRIDE switch disengages.</p>	<p>Do table 2 (WP010 17).</p> <p>Do table 3 (WP010 17).</p>

Table 1. AIM-9 End to End Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>g. Disconnect ground intercommunications hookup (A1-F18AC-LMM-000).</p> <p>h. Disconnect cable from AIM-9 test adapter and launcher umbilical connector.</p> <p>i. Stow cable, AIM-9 test adapter and slotted detent wrench in container and close cover.</p> <p>j. Close door 14R (A1-F18AC-LMM-010).</p> <p>k. Close forward cover on LAU-7( ) launchers.</p> <p>l. Close forward fairing on LAU-127A/A, use 3/8 square drive, rotate fairing latch to CLOSE, securing fairing.</p>		
<p style="text-align: center;">LEGEND</p> <p> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

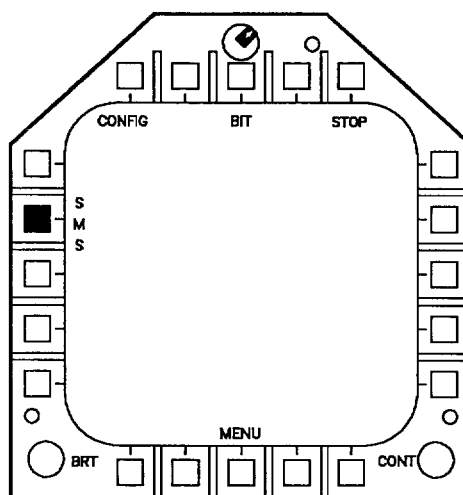
## 1. ILLUSTRATED PARTS BREAKDOWN.

2. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.



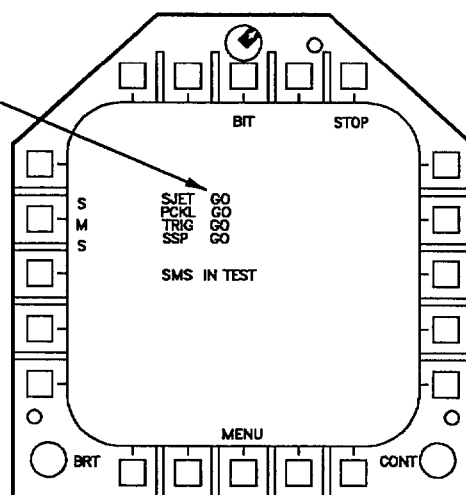
EFFECTIVITY: F/A-18A BEFORE F/A-18 AFC 253  
OR F/A-18 AFC 292 AND F/A-18B

Figure 1. AIM-9 End to End Maintenance BIT Displays (Sheet 1)



MAINTENANCE BIT CONTROL DISPLAY

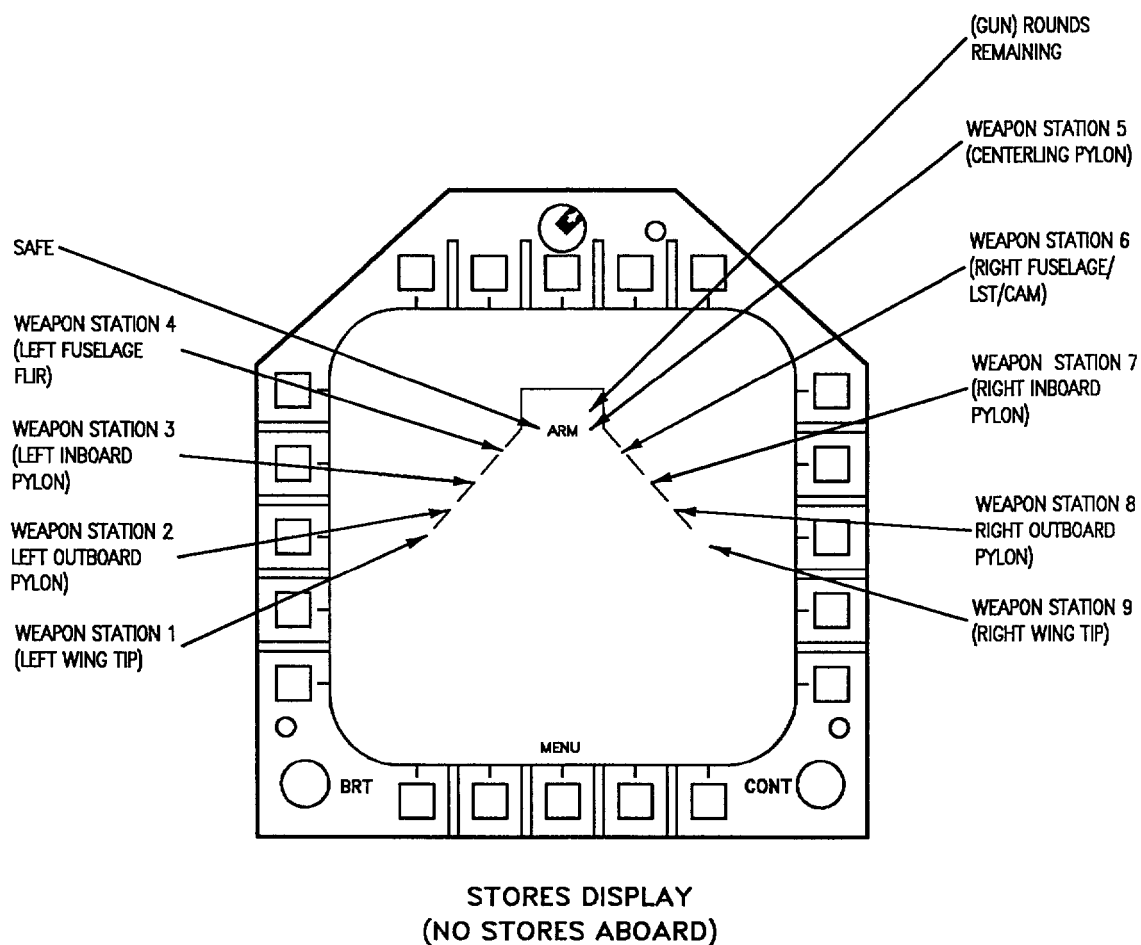
SWITCH DISPLAYS APPEAR  
AFTER INITIATED BIT IS  
COMPLETED  
GO APPEARS AFTER ALL  
FUNCTIONS OF THE  
SWITCH ARE COMPLETED



MAINTENANCE BIT CONTROL DISPLAY--SMS SELECTED

EFFECTIVITY: F/A-18A BEFORE F/A-18 AFC 253  
OR F/A-18 AFC 292 AND F/A-18B

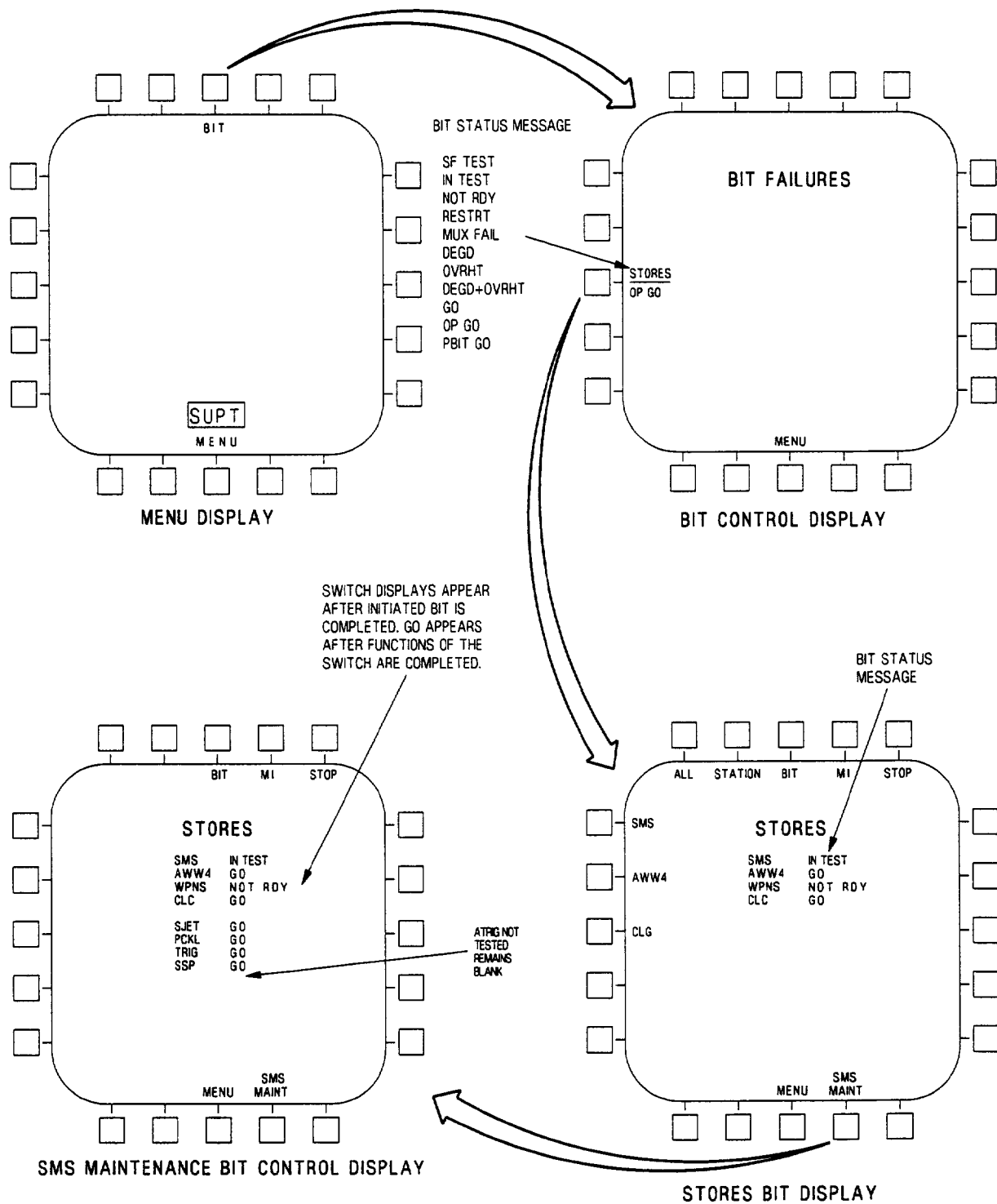
Figure 1. AIM-9 End to End Maintenance BIT Displays (Sheet 2)



EFFECTIVITY: F/A-18A BEFORE F/A-18 AFC 253  
OR F/A-18 AFC 292 AND F/A-18B

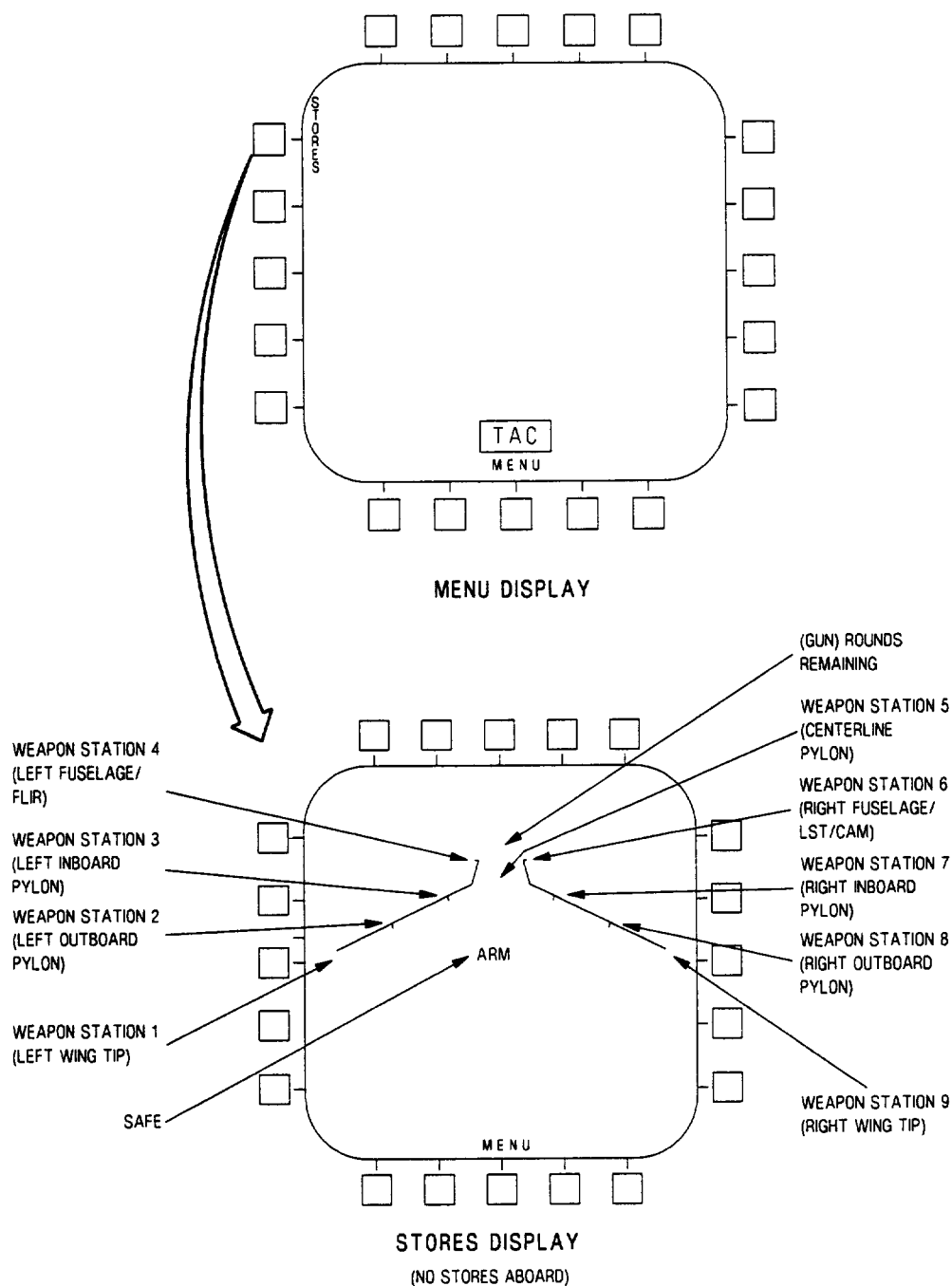
Figure 1. AIM-9 End to End Maintenance BIT Displays (Sheet 3)





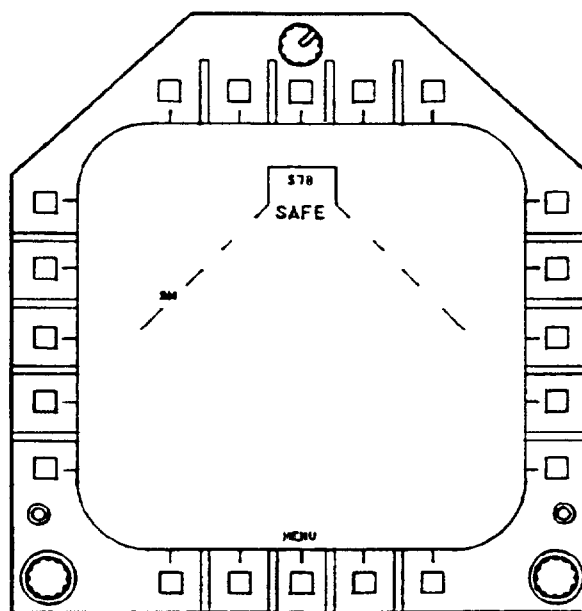
EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

Figure 1. AIM-9 End to End Maintenance BIT Displays (Sheet 4)



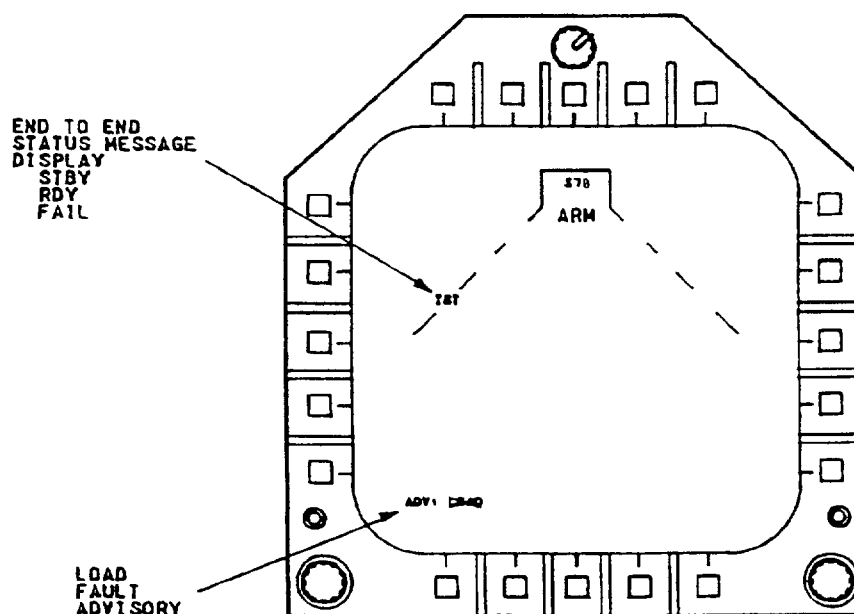
EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER  
F/A-18 AFC 253 OR F/A-18 AFC 292

**Figure 1. AIM-9 End to End Maintenance BIT Displays (Sheet 5)**



## TEST DISPLAY

MASTER ARM AT SAFE.  
ARMAMENT CODE SELECTED 80  
L OR R OUTBD AND 9 WING TIP.

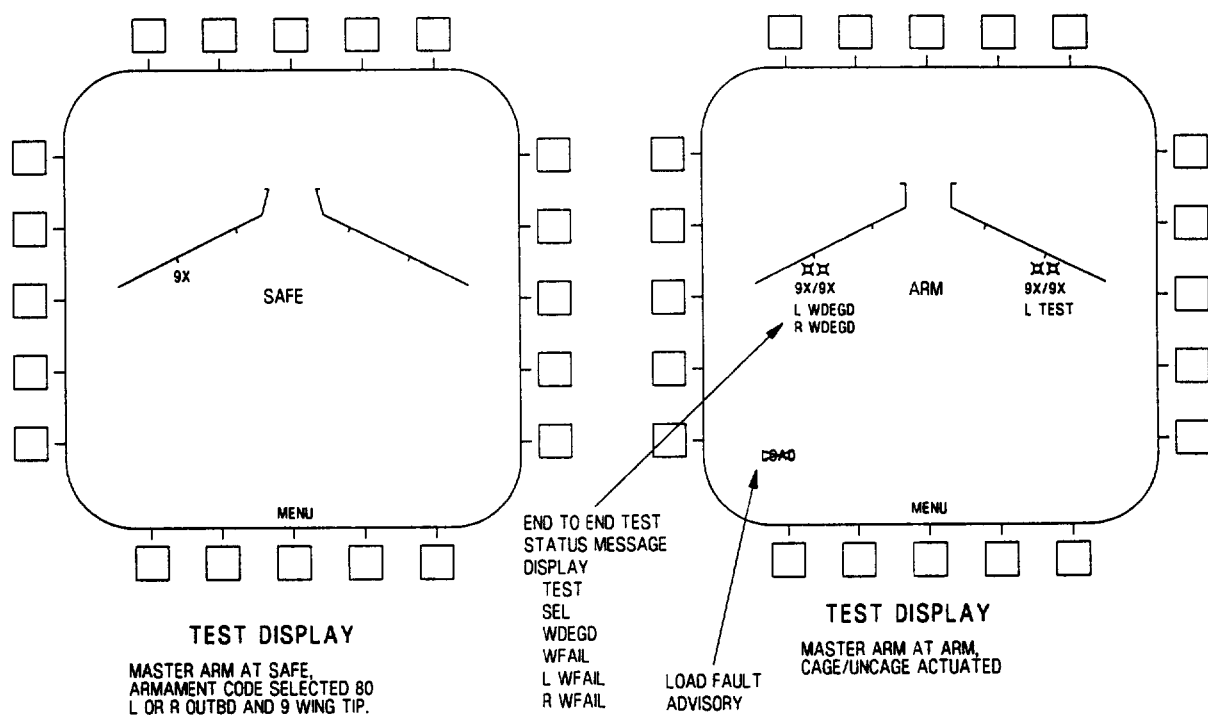


## TEST DISPLAY

MASTER ARM AT ARM.  
CAGE/UNCAGE ACTUATED

EFFECTIVITY: F/A-18A BEFORE F/A-18 AFC 253  
OR F/A-18 AFC 292 AND F/A-18B

Figure 2. End to End Test Display (Sheet 1)



EFFECTIVITY: F/A-18A 162394 THRU 163175 AFTER  
F/A-18 AFC 253 OR F/A-18 AFC 292

Figure 2. End to End Test Display (Sheet 2)

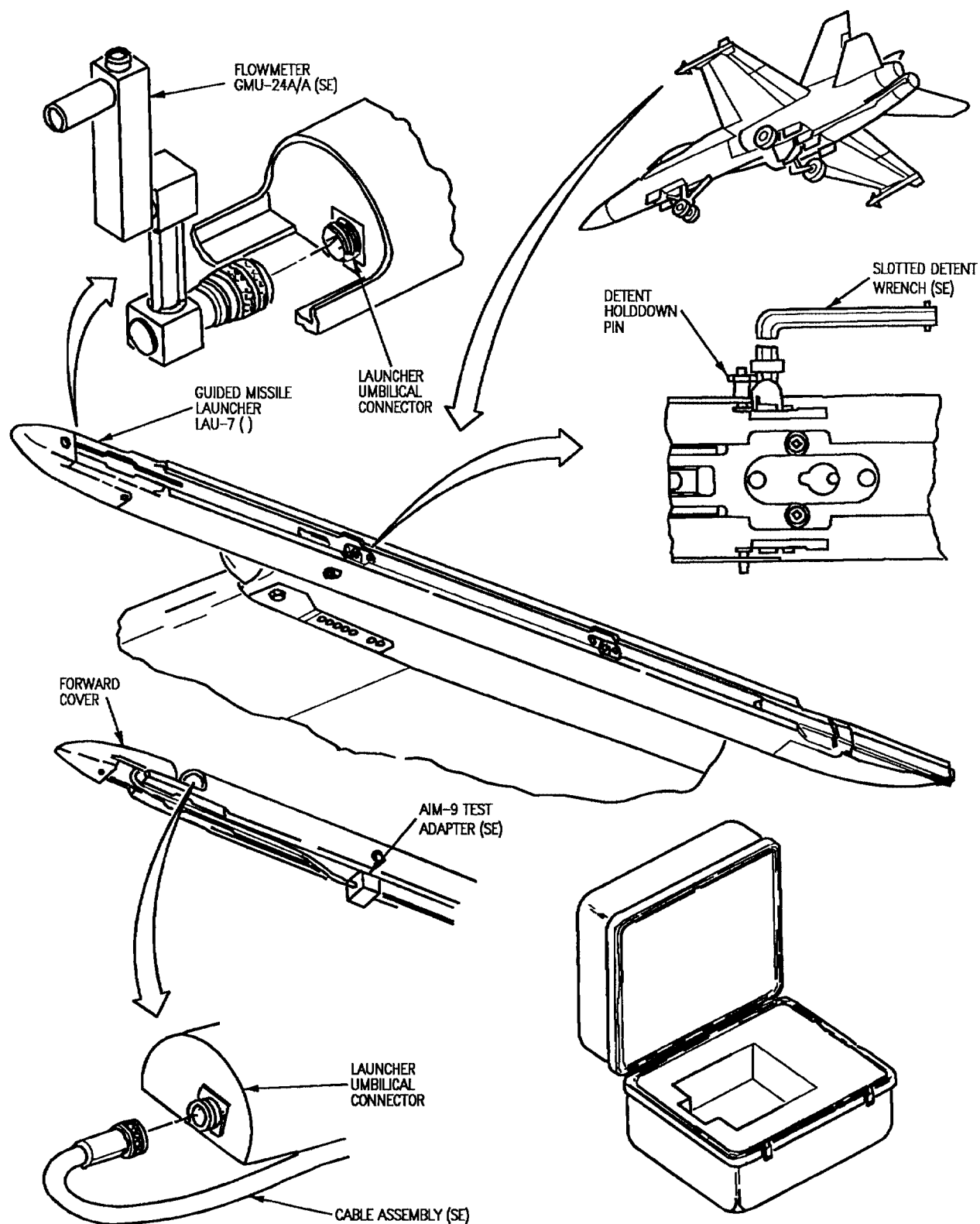


Figure 3. Test Equipment Hookup (Sheet 1)

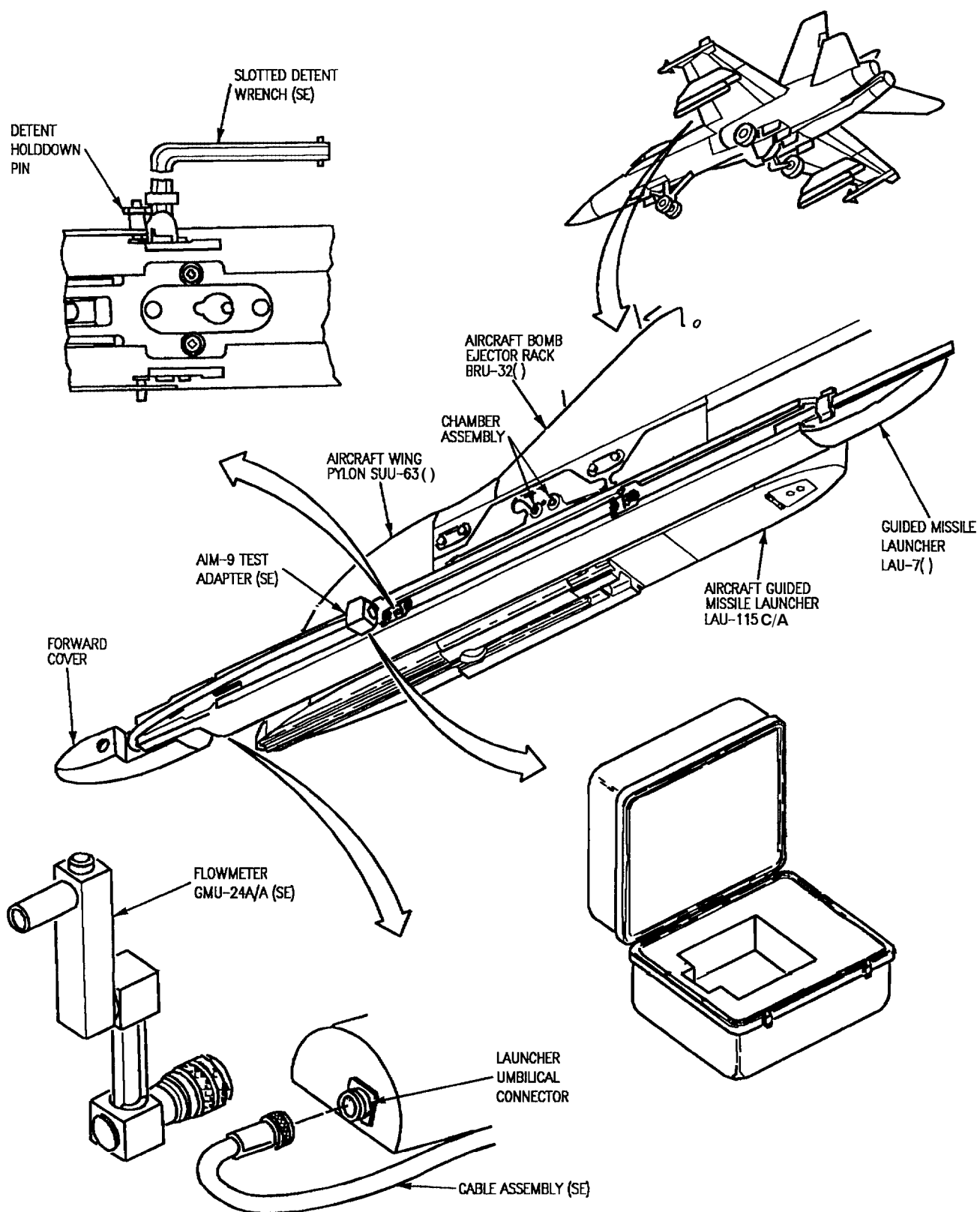
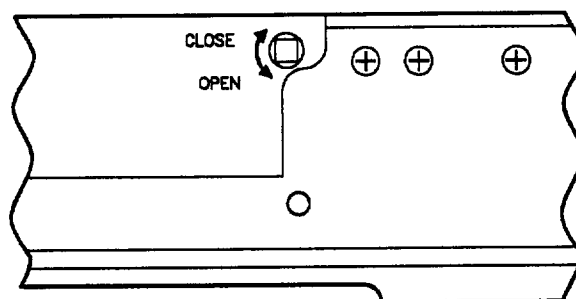


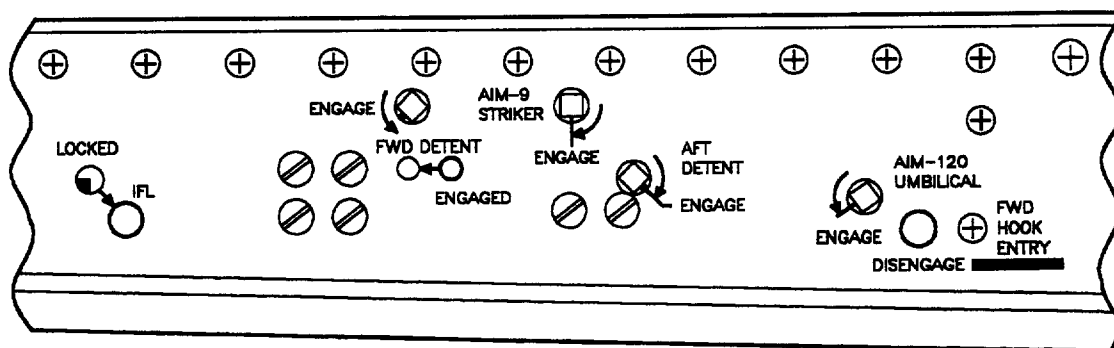
Figure 3. Test Equipment Hookup (Sheet 2)





A

FORWARD FAIRING



B

FORWARD INSTRUCTION PLATE

Figure 3. Test Equipment Hookup (Sheet 4)



INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE	SM&R CODE
1	74D750051-1003	TEST EQUIPMENT HOOKUP .....	1		PEOGD
		. TEST SET, AIRCRAFT WIRING .....			
		AN/AWM-100 (76301) (SUPPORT EQUIPMENT)			
	74D750051-1001	. ADAPTER, TEST - ALM-9 .....	1	*	PEOGD
		MISSILE SYSTEM (76301) (SUPPORT EQUIPMENT) (SUPERSEDED BY 74D750051-1003)			
* ALTERNATE OR EQUIVALENT PARTS.					

Figure 3. Test Equipment Hookup (Sheet 5)



**ORGANIZATIONAL MAINTENANCE**

**TESTING AND TROUBLESHOOTING**

**TROUBLESHOOTING - 9M/ TST NOT DISPLAYED ON LDDI**

**SUSPENSION AND RELEASE MECHANISMS**

### Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapons Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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Table 4 .....	15
Table 5 .....	21
Table 6 .....	26

### Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

#### 1. INTRODUCTION.

2. The troubleshooting tables in this work package provide fault isolation when 9M or TST is not displayed on the LDDI during AIM-9 end to end test.

3. Table 1 isolates 9M display fail for station 2 or 8.

4. F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B: Tables 2, 3, 4 and 5 provide troubleshooting when TST is not displayed for stations 1, 2, 8 or 9.

5. F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292: Table 6 provides troubleshooting when TST or TEST is not displayed for stations 1, 2, 8 or 9.

**Table 1. 9M Not Displayed On LDDI Station 2 or 8**

<p style="text-align: center;"><b>System Required Components</b></p> <p style="text-align: center;">All system components installed.</p> <p style="text-align: center;"><b>Related Systems Required</b></p> <p style="text-align: center;">Avionics Cooling System Electrical Systems Mission Computer System Multipurpose Display Group</p> <p style="text-align: center;"><b>Support Equipment Required</b></p> <p style="text-align: center;">None</p> <p style="text-align: center;"><b>Materials Required</b></p> <p style="text-align: center;">None</p> <p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">AIM-9 Sidewinder Avionic Interface Schematic (A1-F18AC-740-500, WP048 00) may be used as aids when doing this procedure.</p> <p style="text-align: center;">Component locations are shown in WP007 00.</p> <p style="text-align: center;">Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<p>a. Do substeps listed below:</p> <p>(1) Open door 14R (A1-F18AC-LMM-010).</p> <p>(2) On Armament Computer CP-1342/AYQ-9(V), make sure L OUTBD and R OUTBD ARMAMENT switches are set to 80 and WING TIP switches are set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero except stations with fuel tanks installed. If fuel tanks are installed set applicable ARMAMENT switch to 01.</p> <p>(3) On master arm control panel assembly, make sure MASTER switch is set to ARM.</p> <p>(4) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.</p> <p>(5) On LDDI:</p>		

**Table 1. 9M Not Displayed On LDDI Station 2 or 8 (Continued)**

Procedure	No	Yes
<p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(6) Is 9M displayed at station 2 on LDDI wingform? .....</p> <p>b. Do substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code MSG4 WD4 (table 2, WP010 19).</p>	b	e
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
<p>(2) On RDDI, does DATA readout display <input type="checkbox"/> 1 X50XXX or <input type="checkbox"/> 2 1010XX? .....</p>	d	c
c. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step h .....	-	-
d. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step h .....	-	-
e. Is 9M displayed at station 8 on LDDI wingform? .....	f	g
<p>f. Do substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code MSG4 WD16 (table 2, WP010 19).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		


**Table 1. 9M Not Displayed On LDDI Station 2 or 8 (Continued)**

Procedure	No	Yes
(2) On RDDI, does DATA readout display <input type="text" value="1"/> X50XXX? or <input type="text" value="2"/> 1010XX? . . . . .	d	c
g. Turn electrical power off (A1-F18AC-LMM-000) and do step h . . . . .	-	-
h. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed or closed:		
(1) Door 14R . . . . .	-	-
<b>LEGEND</b>		
<input type="text" value="1"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="text" value="2"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 2. TST Not Displayed On LDDI Station 1 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B**

System Required Components	
All system components installed.	
Related Systems Required	
Avionics Cooling System	
Electrical Systems	
Mission Computer System	
Multipurpose Display Group	
Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
AIM-9 Sidewinder Avionic Interface Schematic (A1-F18AC-740-500, WP048 00) and Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as aids when doing this procedure.	
Component locations are shown in WP007 00.	

**Table 2. TST Not Displayed On LDDI Station 1 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

NOTE		
Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 Guided Missile Launcher LAU-7( ) Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) Right Throttle Grip		
Procedure	No	Yes
		
To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.		
NOTE		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) On Armament Computer CP-1342/AYQ-9(V), make sure L OUTBD and R OUTBD ARMAMENT switches are set to 80 and WING TIP switches are set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero except for stations with fuel tanks installed. If fuel tanks are installed set applicable ARMAMENT switch to 01.		
(3) On master arm control panel assembly, make sure MASTER switch is set to ARM.		
(4) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.		
(5) On LDDI:		
(a) Press MENU pushbutton switch.		

**Table 2. TST Not Displayed On LDDI Station 1 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**


Procedure	No	Yes
(b) Press STORES pushbutton switch.		
(6) Is AIM-9 test adapter connected to station 1? .....	b	c
b. Do substeps listed below:		
(1) Install AIM-9 test adapter on station 1. Do steps 1, 2 and 3 of AIM-9 End to End Test, WP037 02.		
Do step c .....	-	-
c. Do substeps below:		
(1) Do AIM-9 End to End Test, step 5, WP037 02.		
(2) On right throttle grip, press and release cage/uncage switch.		
(3) Is TST displayed at station 1 on LDDI wingform? .....	d	p
d. Do substeps below:		
(1) Using unit address 06, memory inspect address for ref code MSG4 WD2 (table 2, WP010 19).		
<b>NOTE</b>		
DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display X51XXX? .....	f	e
e. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step q .....	-	-
f. Memory inspect cage/uncage (INPNMO+4/BIT 4) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code INPNMO+4 (table 2, WP010 19).		
(2) On right throttle grip, press and hold cage/uncage switch.		
(3) Record data readout.		
(4) Release cage/uncage switch.		



**Table 2. TST Not Displayed On LDDI Station 1 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.		
(5) On RDDI, does DATA readout display XX4XXX? .....	h	l
g. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step q .....	-	-
h. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(3) Press and hold cage/uncage switch.		
(4) Does continuity exist from 61P-F001B pin 119 to aircraft ground? .....	i	g
i. Do substeps listed below:		
(1) Open internal door CPP (A1-F18AC-LMM-010).		
(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.		
(3) Does continuity exist from:		
61P-F001B pin 119 to 52J-H048 pin 36	j	k
aircraft ground to 52J-H048 pin 37? .....		
j. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step q .....	-	-
k. Replace right throttle grip (A1-F18AC-270-300, WP088 00) and do step q .....	-	-
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove AIM-9 test adapter.		
(3) On LAU-7( ), install a jumper wire from umbilical connector J2 pin 14 to aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) On Armament Computer CP-1342/AYQ-9(V), set WING TIP switches to 2.		

**Table 2. TST Not Displayed On LDDI Station 1 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(7) Does 115 vac exist between J2 pin 1 and aircraft ground? .....	m	n
m. Troubleshoot Sidewinder Weapon Station 1 115vac Power Control Fail (Table 1, WP037 11) and do step q .....	-	-
n. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 159L (A1-F18AC-LMM-010).		
(3) On encoder-decoder, disconnect 61P-U011B from J2.		
(4) Open door 144L (A1-F18AC-LMM-010).		
		
When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.		
(5) Disconnect 61P-U021A from J1, on LAU-7( ).		
(6) Does continuity exist between 61P-U021A pin 20 and 61P-U011B pin 15? .....	j	o
o. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(3) Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
Do step q .....	-	-
p. Normal indication. Do step q .....	-	-
q. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed:		
(1) 52J-H048		
(2) 61P-F001B		
(3) 61P-U011B		
(4) 61P-U021A		


**Table 2. TST Not Displayed On LDDI Station 1 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(5) Doors 14R, 144L, 159L, CPP		
(6) Jumper wire (J2 on Launcher) .....	-	-

**Table 3. TST Not Displayed On LDDI Station 2 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B**

<b>System Required Components</b>	
All system components installed.	
<b>Related Systems Required</b>	
Avionics Cooling System	
Electrical Systems	
Mission Computer System	
Multipurpose Display Group	
<b>Support Equipment Required</b>	
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>
77/BN	Multimeter
<b>Materials Required</b>	
None	
<b>NOTE</b>	
AIM-9 Sidewinder Avionic Interface Schematic (A1-F18AC-740-500, WP048 00) and Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as aids when doing this procedure.	
Component locations are shown in WP007 00.	
Memory inspect data used in this procedure is provided in WP010 19.	

**Table 3. TST Not Displayed On LDDI Station 2 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wiring Guided Missile Launcher LAU-115C/A Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 Guided Missile Launcher LAU-7( ) LAU-115 Jumper Cable W56629 Left Aircraft Wing Pylon SUU-63( ) Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) Right Throttle Grip		
Procedure	No	Yes
 <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Open door 14R (A1-F18AC-LMM-010).</li> <li>(2) On Armament Computer CP-1342/AYQ-9(V), make sure L OUTBD and R OUTBD ARMAMENT switches are set to 80 and WING TIP switches are set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero except for stations with fuel tanks installed. If fuel tanks are installed set applicable ARMAMENT switch to 01.</li> <li>(3) On master arm control panel assembly, make sure MASTER switch is set to ARM.</li> <li>(4) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.</li> <li>(5) On LDDI: <ol style="list-style-type: none"> <li>(a) Press MENU pushbutton switch.</li> </ol> </li> </ol>		

**Table 3. TST Not Displayed On LDDI Station 2 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(b) Press STORES pushbutton switch.		
(6) Is AIM-9 test adapter connected to station 2? .....	b	c
b. Do substeps listed below:		
(1) Install AIM-9 test adapter on station 2. Do steps 1, 2 and 3 of AIM-9 End to End Test, WP037 02.		
Do step c .....	-	-
c. Do substeps listed below:		
(1) Do AIM-9 End to End Test, step 5, WP037 02.		
(2) On right throttle grip, press and release cage/uncage switch.		
(3) Is AIM-9 missile symbol and 9M is removed from station 2 LDDI wingform and TST displayed? .....	d	l
d. Do substeps below:		
(1) Using unit address 06, memory inspect address for ref code MSG4 WD4 (table 2, WP010 19).		
<b>NOTE</b>		
DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display X51XXX? .....	f	e
e. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step w ....	-	-
f. Memory inspect cage/uncage (INPNMO+4/BIT 4) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code INPNMO+4 (table 2, WP010 19).		
(2) On right throttle grip, press and hold cage/uncage switch.		
(3) Release cage/uncage switch.		
<b>NOTE</b>		
DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.		
(4) On RDDI, does DATA readout display XX4XXX? .....	h	l

**Table 3. TST Not Displayed On LDDI Station 2 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
g. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step l .....	-	-
h. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(3) Press and hold cage/uncage switch.		
(4) Does continuity exist from 61P-F001B pin 119 to aircraft ground? .....	i	g
i. Do substeps listed below:		
(1) Open intemal door CPP (A1-F18AC-LMM-010).		
(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.		
(3) Does continuity exist from:		
61P-F001B pin 119 to 52J-H048 pin 36	j	k
aircraft ground to 52J-H048 pin 37? .....		
j. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step w .....	-	-
k. Replace right throttle grip (A1-F18AC-270-300, WP088 00) and do step w .....	-	-
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove AIM-9 test adapter.		
(3) On failed side (left or right) LAU-7( ), install a jumper wire from J2 pin 14 to aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does 115vac exist between LAU-7( ) pin 1 and aircraft ground? .....	m	p
m. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove failed side (left or right) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		

**Table 3. TST Not Displayed On LDDI Station 2 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>(3) On LAU-115, install a jumper wire from</p> <p style="padding-left: 40px;">(left side) 61P-W213 pin 26</p> <p style="padding-left: 80px;">or</p> <p style="padding-left: 40px;">(right side) 61P-W212 pin 26</p> <p>to aircraft ground.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(6) Does 115vac exist between</p> <p style="padding-left: 40px;">(left side) 61P-W213 pin 9</p> <p style="padding-left: 80px;">or</p> <p style="padding-left: 40px;">(right side) 61P-W212 pin 9</p> <p>aircraft ground? .....</p>	n	o
n. Troubleshoot Sidewinder Weapon Station 2 115vac Power Control Fail (WP037 11, Table 2) .....	-	-
o. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step w .....	-	-
p. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove failed side Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(3) On pylon, open door 504 (A1-F18AC-LMM-010).		
(4) On Encoder-Decoder, disconnect 61P-W012D from J4.		
(5) Does continuity exist between 61P-W012D pin y and:		
(left side) 61P-W213 pin 20		
or		
(right side) 61P-W212 pin 20? .....	q	v

**Table 3. TST Not Displayed On LDDI Station 2 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>q. Do substeps listed below:</p> <p>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W095B from 61J-W095B.</p> <p>(3) Does continuity exist between:</p> <p>61P-095B pin H and 61P-W012D pin y? .....</p>	r	u
<p>r. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable W56229, does continuity exist between:</p> <p>61P-W095B pin H and 61P-W093 pin 59? .....</p>	s	t
<p>s. Replace LAU-115 jumper cable W56229 (A1-F18AC-740-300, WP025 00). Do step w .....</p>	-	-
<p>t. Replace left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step w .....</p>	-	-
<p>u. Replace left outboard Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step w .....</p>	-	-
<p>v. Malfunction is caused by one of the items listed below:</p> <p>(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>(2) Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>(3) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).</p> <p>Do step w .....</p>	-	-
<p>w. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed or closed:</p> <p>(1) P1 (throttle)</p> <p>(2) 61P-F001B</p> <p>(3) 61P-W012D</p> <p>(4) 61P-W093</p> <p>(5) 61P-W095B</p> <p>(6) Door 14R, 502, 504, CPP</p>		




**Table 3. TST Not Displayed On LDDI Station 2 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(7) Jumper wire (J2, 61P-W212, 61P-W213)		
(8) Guided Missile Launcher LAU-7( ) .....	-	-

**Table 4. TST Not Displayed On LDDI Station 8 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B**

<b>System Required Components</b>	
All system components installed.	
<b>Related Systems Required</b>	
Avionics Cooling System	
Electrical Systems	
Mission Computer System	
Multipurpose Display Group	
<b>Support Equipment Required</b>	
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>
77/BN	Multimeter
<b>Materials Required</b>	
None	
<b>NOTE</b>	
AIM-9 Sidewinder Avionic Interface Schematic (A1-F18AC-740-500, WP048 00) and Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as aids when doing this procedure.	
Component locations are shown in WP007 00.	
Memory inspect data used in this procedure is provided in WP010 19.	

**Table 4. TST Not Displayed On LDDI Station 8 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wiring Guided Missile Launcher LAU-115C/A Armament Computer CP-1342/AYQ-9(V) Digital Data Computer No. 2 Guided Missile Launcher LAU-7( ) LAU-115 Jumper Cable W56629 Right Aircraft Wing Pylon SUU-63( ) Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) Right Throttle Grip		
Procedure	No	Yes
 <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Open door 14R (A1-F18AC-LMM-010).</li> <li>(2) On Armament Computer CP-1342/AYQ-9(V), make sure L OUTBD and R OUTBD ARMAMENT switches are set to 80 and WING TIP switches are set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero except for stations with fuel tanks installed. If fuel tanks are installed, set applicable ARMAMENT switch to 01.</li> <li>(3) On master arm control panel assembly, make sure MASTER switch is set to ARM.</li> <li>(4) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.</li> </ol>		

**Table 4. TST Not Displayed On LDDI Station 8 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>(5) On LDDI:</p> <p>(a) Press MENU pushbutton switch.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(6) Is AIM-9 test adapter connected to station 8? .....</p>	b	c
<p>b. Do substeps listed below:</p> <p>(1) Install AIM-9 test adapter on station 8. Do steps 1, 2 and 3 of AIM-9 End to End Test, WP037 02.</p> <p>Do step c .....</p>	-	-
<p>c. Do substeps below.</p> <p>(1) Do AIM-9 End to End Test, step 5, WP037 02.</p> <p>(2) On right throttle grip, press and release cage/uncage switch.</p> <p>(3) AIM-9 missile symbol and 9M is removed from station 8 LDDI wingform and TST displayed? .....</p>	d	l
<p>d. Do substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code MSG4 WD16 (table 2, WP010 19).</p>		
<b>NOTE</b>		
DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.		
<p>(2) On RDDI, does DATA readout display X51XXX? .....</p>	f	e
<p>e. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step w ....</p>	-	-
<p>f. Memory inspect cage/uncage (INPNMO+4/BIT 4) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code INPNMO+4 (table 2, WP010 19).</p> <p>(2) On right throttle grip, press and hold cage/uncage switch.</p> <p>(3) Release cage/uncage switch.</p>		

**Table 4. TST Not Displayed On LDDI Station 8 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.		
(4) On RDDI, does DATA readout display XX4XXX? .....	h	l
g. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step w .....	-	-
h. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(3) Press and hold cage/uncage switch.		
(4) Does continuity exist from 61P-F001B pin 119 to aircraft ground? .....	i	g
i. Do substeps listed below:		
(1) Open internal door CPP (A1-F18AC-LMM-010).		
(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.		
(3) Does continuity exist from:		
61P-F001B pin 119 to 52J-H048 pin 36		
aircraft ground to 52J-H048 pin 37? .....	j	k
j. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step w .....	-	-
k. Replace right throttle grip (A1-F18AC-270-300, WP074 00) and do step w .....	-	-
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove AIM-9 test adapter.		
(3) On failed side (left or right) LAU-7( ), install a jumper wire from J2 pin 14 to aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) Does 115vac exist between LAU-7( ) pin 1 and aircraft ground? .....	m	p

**Table 4. TST Not Displayed On LDDI Station 8 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>m. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove failed side (left or right) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).</p> <p>(3) On LAU-115, install a jumper wire from</p> <p style="padding-left: 40px;">(left side) 61P-W213 pin 26</p> <p style="padding-left: 80px;">or</p> <p style="padding-left: 40px;">(right side) 61P-W212 pin 26</p> <p>to aircraft ground.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(6) Does 115vac exist between</p> <p style="padding-left: 40px;">(left side) 61P-W213 pin 9</p> <p style="padding-left: 80px;">or</p> <p style="padding-left: 40px;">(right side) 61P-W212 pin 9</p> <p>and aircraft ground? .....</p>	n	o
n. Troubleshoot Sidewinder Weapon Station 8 115vac Power Control Fail (WP037 12, Table 1) .....	-	-
o. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step w .....	-	-
<p>p. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove failed side Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).</p> <p>(3) On pylon, open door 504 (A1-F18AC-LMM-010).</p> <p>(4) On Encoder-Decoder, disconnect 61P-W012D from J4.</p> <p>(5) Does continuity exist between 61P-W012D pin y and:</p> <p style="padding-left: 40px;">(left side) 61P-W213 pin 20</p> <p style="padding-left: 80px;">or</p> <p style="padding-left: 40px;">(right side) 61P-W212 pin 20? .....</p>	q	v

**Table 4. TST Not Displayed On LDDI Station 8 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
q. Do substeps listed below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W095B from 61J-W095B.		
(3) Does continuity exist between:		
61P-W095B pin H and 61P-W012D pin y? .....	r	u
r. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable W56229, does continuity exist between:		
61P-W095B pin H and 61P-W093 pin 59? .....	s	t
s. Replace LAU-115 jumper cable W56229 (A1-F18AC-740-300, WP025 00). Do step w .....	-	-
t. Replace right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step w .....	-	-
u. Replace right outboard Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step w .....	-	-
v. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(3) Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step w .....	-	-
w. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed:		
(1) P1 (throttle)		
(2) 61P-F001B		
(3) 61P-W012D		
(4) 61P-W093		
(5) 61P-W095B		

**Table 4. TST Not Displayed On LDDI Station 8 –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(6) Door 14R, 502, 504, CPP		
(7) Jumper wires (J2, 61P-W212, 61P-W213)		
(8) Guided Missile Launcher LAU-7( ) .....	-	-

**Table 5. TST Not Displayed On LDDI Station 9 –  
F/A-18A before F/A-18 AFC or F/A-18 AFC 292 and F/A-18B**

### System Required Components

All system components installed.

### Related Systems Required

Avionics Cooling System  
Electrical Systems  
Mission Computer System  
Multipurpose Display Group

### Support Equipment Required

**Part Number or  
Type Designation**

**Nomenclature**

77/BN

Multimeter

### Materials Required

None

### NOTE

AIM-9 Sidewinder Avionic Interface Schematic (A1-F18AC-740-500, WP048 00) and Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as aids when doing this procedure.


Component locations are shown in WP007 00.

Memory inspect data used in this procedure is provided in WP010 19.

Malfunction is caused by one of the items listed below:

Aircraft Wiring  
Armament Computer CP-1342/AYQ-9(V)  
Guided Missile Launcher LAU-7( )  
Digital Data Computer No. 2  
Right Throttle Grip  
Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)

**Table 5. TST Not Displayed On LDDI Station 9 –  
F/A-18A before F/A-18 AFC or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
 <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Open door 14R (A1-F18AC-LMM-010).</li> <li>(2) On Armament Computer CP-1342/AYQ-9(V), make sure L OUTBD and R OUTBD ARMAMENT switches are set to 80 and WING TIP switches are set to 9. Make sure remaining FUZING and ARMAMENT switches are set to zero except for stations with fuel tanks installed. If fuel tanks are installed, set applicable ARMAMENT switch to 01.</li> <li>(3) On master arm control panel assembly, make sure MASTER switch is set to ARM.</li> <li>(4) On nose wheelwell maintenance panel assembly, set ARMAMENT OVERRIDE switch to OVERRIDE.</li> <li>(5) On LDDI: <ol style="list-style-type: none"> <li>(a) Press MENU pushbutton switch.</li> <li>(b) Press STORES pushbutton switch.</li> </ol> </li> <li>(6) Is AIM-9 test adapter connected to station 9? .....</li> </ol>	b	c
<p>b. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Install AIM-9 test adapter on station 9. Do steps 1, 2 and 3 of AIM-9 End to End Test, WP037 02.</li> </ol> <p>Do step c .....</p>	-	-




**Table 5. TST Not Displayed On LDDI Station 9 –  
F/A-18A before F/A-18 AFC or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>c. Do substeps below:</p> <p>(1) Do AIM-9 End to End Test, step 5, WP037 02.</p> <p>(2) On right throttle grip, press and release cage/uncage switch.</p> <p>(3) Is TST displayed at station 9 on LDDI wingform? .....</p>	d	p
<p>d. Do substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code MSG4 WD18 (table 2, WP010 19).</p> <p align="center"><b>NOTE</b></p> <p align="center">DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>(2) On RDDI, does DATA readout display X51XXX? .....</p>	f	e
e. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00) and do step q .....	-	-
<p>f. Memory inspect cage/uncage (INPNMO+4/BIT 4) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code INPNMO+4 (table 2, WP010 19).</p> <p>(2) On right throttle grip, press and hold cage/uncage switch.</p> <p>(3) Release cage/uncage switch.</p> <p align="center"><b>NOTE</b></p> <p align="center">DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>(4) On RDDI, does DATA readout display XX4XXX? .....</p>	h	l
g. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step q .....	-	-
<p>h. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).</p> <p>(3) Press and hold cage/uncage switch.</p> <p>(4) Does continuity exist from 61P-F001B pin 119 to aircraft ground? .....</p>	i	g

**Table 5. TST Not Displayed On LDDI Station 9 –  
F/A-18A before F/A-18 AFC or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
i. Do substeps listed below:		
(1) Open internal door CPP (A1-F18AC-LMM-010).		
(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.		
(3) Does continuity exist from:		
61P-F001B pin 119 to 52J-H048 pin 36	j	k
aircraft ground to 52J-H048 pin 37? .....		
j. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step q .....	-	-
k. Replace right throttle grip (A1-F18AC-270-300, WP088 00) and do step q .....	-	-
l. Do the substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove AIM-9 test adapter.		
(3) On LAU-7( ), install a jumper wire from umbilical connector J2 pin 14 to aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) On Armament Computer CP-1342/AYQ-9(V), set WING TIP switches to 2.		
(7) Does 115vac exist between J2 pin 1 and aircraft ground? .....	m	n
m. Troubleshoot Sidewinder Weapon Station 9 115vac Power Control Fail (Table 2, WP037 12) and do step q .....	-	-
n. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 159R (A1-F18AC-LMM-010).		
(3) On encoder-decoder, disconnect 61P-V019B from J2.		
(4) Open door 144R (A1-F18AC-LMM-010).		

**Table 5. TST Not Displayed On LDDI Station 9 –  
F/A-18A before F/A-18 AFC or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
 <p>When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(5) Disconnect 61P-V029A from J1, on LAU-7( ).		
(6) Does continuity exist between 61P-V029A pin 20 and 61P-V019B pin 15? .....	j	o
o. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(3) Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
Do step q .....	-	-
p. Normal indication. Do step q .....	-	-
q. If disconnected, removed or opened during this procedure, make sure the items listed below are connected, installed or closed:		
(1) P1 (throttle)		
(2) 61P-F001B		
(3) 61P-V019B		
(4) 61P-V029A		
(5) Door 14R, 144R, 159R, CPP		
(6) Jumper Wire (J2 on Launcher)	-	-

**Table 6. TST Not Displayed On LDDI –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292**

**System Required Components**

All system components installed.

**Related Systems Required**

Avionics Cooling System  
Electrical Systems  
Mission Computer System  
Multipurpose Display Group

**Support Equipment Required**

**Part Number or  
Type Designation**

**Nomenclature**

77/BN

Multimeter

**Materials Required**

None

**NOTE**

AIM-9 Sidewinder Avionic Interface Schematic (A1-F18AC-740-500, WP048 00)  
and Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046  
00) may be used as aids when doing this procedure.

Component locations are shown in WP007 00.

Memory inspect data used in this procedure is provided in WP010 19.

Malfunction is caused by one of the items listed below:

Guided Missile Launcher LAU-7( )  
Aircraft Wiring  
Armament Computer CP-1342/AYQ-9(V)  
Digital Data Computer No. 2  
Right Throttle Grip  
Wing Command Signal Encoder-Decoder KY-851/AYQ-9(V)

**Table 6. TST Not Displayed On LDDI –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Using unit address 06, memory inspect address for ref code MSG4 WD2 (table 2, WP010 19).		
<b>NOTE</b>		
There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display 1010XX? .....	c	b
b. Replace Digital Data Computer No. 2 (A1-F18AC-741-300, WP004 00). Do step t .....	-	-
c. Memory inspect cage/uncage (INPNMO+6/BIT 3) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code INPNMO+6 (table 2, WP010 19).		
(2) On right throttle grip, press and hold cage/uncage switch.		
(3) Record data readout.		
(4) Release cage/uncage switch.		
(5) On RDDI, does DATA readout display X1XXXX? .....	e	i
d. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step t .....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		

**Table 6. TST Not Displayed On LDDI –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
(3) Disconnect 61P-F001B from Armament Computer CP-1342/AYQ-9(V).		
(4) Press and hold cage/uncage switch.		
(5) Does continuity exist between 61P-F001B pin 119 and aircraft ground? .....	f	d
f. Do substeps listed below:		
(1) Open internal door CPP (A1-F18AC-LMM-010).		
(2) Disconnect P1 from 52J-H048 on right throttle quadrant support.		
(3) Does continuity exist between:		
61P-F001B pin 119 and 52J-H048 pin 36		
aircraft ground and 52J-H048 pin 37?	g	h
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step t .....	-	-
h. Replace right throttle grip (A1-F18AC-270-300, WP088 00). Do step t .....	-	-
i. Is TST or TEST displayed on LDDI wingform at station 1? .....	k	j
j. Memory inspect station 1 test word by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code ETMA+36 (table 2, WP010 19).		
(2) Record DDI DATA readout. Interpret data using table 2 (WP027 04) .....	-	-
k. Is TST or TEST displayed on LDDI wingform at station 2? .....	l	o
l. Memory inspect station 2 left test word by doing substeps below:		
(1) Using unit address 06, memory inspect address ref code ETMA+38 (table 2, WP010 19).		
(2) On RDDI, does DATA readout display 000000? .....	m	n
m. Record DDI DATA readout. Interpret data using table 3 (WP027 04) .....	-	-
n. Memory inspect station 2 right test word by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code ETMA+40 (table 2, WP010 19).		
(2) Record DDI DATA readout. Interpret data using table 4 (WP027 04) .....	-	-
o. Is TST or TEST displayed on LDDI wingform at station 8? .....	p	s
p. Memory inspect station 8 left test word by doing substeps below:		

**Table 6. TST Not Displayed On LDDI –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292  
(Continued)**

Procedure	No	Yes
(1) Using unit address 06, memory inspect address for ref code ETMA+50 (table 2, WP010 19).		
(2) On RDDI, does DATA readout display 000000? .....	q	r
q. Record DDI DATA readout. Interpret data using table 5 (WP027 04) .....	-	-
r. Memory inspect station 8 right test word by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code ETMA+52 (table 2, WP010 19).		
(2) Record DDI DATA readout. Interpret data using table 6 (WP027 04) .....	-	-
s. Memory inspect station 9 test word by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code ETMA+54 (table 2, WP010 19).		
(2) Record DDI DATA readout. Interpret data using table 7 (WP027 04) .....	-	-
t. If disconnected, removed or opened during this procedure. make sure items listed below are connected, installed or closed:		
(1) 52J-H048		
(2) 61P-F001B		
(3) Doors 14R, 144L, 159L, CPP .....	-	-





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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TROUBLESHOOTING - AIM-9 END TO END TEST MEMORY INSPECT**  
**SUSPENSION AND RELEASE MECHANISMS**

---

**Reference Material**

Weapon Control Systems ..... A1-F18AC-740-200  
Memory Inspect Data ..... WP010 19

**Alphabetical Index**

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**Record of Applicable Technical Directives**

<b>Type/ Number</b>	<b>Date</b>	<b>Title and ECP No.</b>	<b>Date Incorp.</b>	<b>Remarks</b>
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**1. INTRODUCTION.**

2. The memory inspect troubleshooting tables in this work package provide fault isolation when the AIM-9 end to end test failed on stations 1, 2, 8, or 9.

3. Weapon stations 1 and 9 have one memory inspect

location each and stations 2 and 8 have two memory inspect locations.

4. Table 1 isolates which station failed and the memory inspect location that failed.

5. Tables 2, 3, 4, 5, 6, 7, and 8 interpret the data readout recorded in Table 1. These tables also provide the maintenance action for the related failure.

**Table 1. Station 1 Thru 9 AIM-9 End To End Test Memory Inspect**

<b>Support Equipment Required</b>  None		
<b>Materials Required</b>  None		
<b>NOTE</b>  Component locations are shown in WP007 00.  Memory inspect data used in this procedure is provided in WP010 19.  Paragraph 1 provides WP troubleshooting description/logic.  Weapon Station AIM-9 Schematics are used to fault isolate failed signal lines identified in tables 2 thru 7. Weapon station schematics are in A1-F18AC-740-500 as listed below:  <div style="margin-left: 40px;">           Weapon Station 1, 9 AIM-9 Sidewinder Schematic (WP046 00)            Weapon Station 2, 8 AIM-9 Sidewinder Schematic (WP047 00)            Weapon Station 1 Power Control Schematic (WP026 00)            Weapon Station 2 Power Control Schematic (WP027 00)            Weapon Station 8 Power Control Schematic (WP033 00)            Weapon Station 9 Power Control Schematic (WP034 00)            Armament Computer Input/Output Interface Schematic (WP011 00)         </div> The items listed below are shown on these schematics.  Malfunction is caused by one of the items listed below  <div style="margin-left: 40px;">           Aircraft Wiring            Armament Computer CP-1342/AYQ-9(V)            LAU-115 Jumper Cable W56235  <input type="checkbox"/> Station 1 and 2 No. 11 Relay Panel Assembly            Station 1 and 2 No. 7 Circuit Breaker/Relay Panel Assembly            Station 1 and 9 Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)            Station 2 and 8 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)            Station 8 and 9 No. 2 Circuit Breaker Panel Assembly  <input type="checkbox"/> Station 8 and 9 No. 2 Relay Panel Assembly  <input type="checkbox"/> Station 8 and 9 No. 10 Relay Panel Assembly         </div>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
a. Is <input type="checkbox"/> FAIL or <input type="checkbox"/> WFAIL displayed on LDDI wingform at station 1? .....	c	b
b. Memory inspect station 1 test word by doing substeps below:		

Table 1. Station 1 Thru 9 AIM-9 End To End Test Memory Inspect (Continued)

Procedure	No	Yes
(1) Using unit address 06, memory inspect address for ref code ETMA+24 (89A) or ETMA+36 (92A AND UP) (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) Record DDI DATA readout. Interpret data using table 2 (this WP) .....	-	-
c. Is <input type="checkbox"/> 1 FAIL <input type="checkbox"/> 2 WFAIL displayed on LDDI wingform at station 2? .....	g	d
d. Memory inspect station 2 left test word by doing substeps below.		
(1) Using unit address 06, memory inspect address ref code ETMA+26 (89A) or ETMA+38 (92A AND UP) (table 2, WP010 19).		
(2) On RDDI, does DATA readout display 000000? .....	e	f
e. Record DDI DATA readout. Interpret data using table 3 (this WP) .....	-	-
f. Memory inspect station 2 right test work by doing substeps below.		
(1) Using unit address 06, memory inspect address for ref code ETMA+28 (89A) or ETMA+40 (92A AND UP) (table 2, WP010 19).		
(2) Record DDI DATA readout. Interpret data using table 4 (this WP) .....	-	-
g. Is <input type="checkbox"/> 1 FAIL <input type="checkbox"/> 2 WFAIL displayed on LDDI wingform at station 8? .....	k	h
h. Memory inspect station 8 left test word by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code ETMA+30 (89A) or ETMA+50 (92A AND UP) (table 2, WP010 19).		
(2) On RDDI, does DATA readout display 000000? .....	i	j
i. Record DDI DATA readout. Interpret data using table 5 (this WP) .....	-	-
j. Memory inspect station 8 right test word by doing substeps below:		

Table 1. Station 1 Thru 9 AIM-9 End To End Test Memory Inspect (Continued)

Procedure	No	Yes
(1) Using unit address 06, memory inspect address for ref code ETMA+32 (89A) or ETMA+52 (92A AND UP) (table 2, WP010 19).		
(2) Record DDI DATA readout. Interpret data using table 6 (this WP) . . . . .	-	-
k. Memory inspect station 9 test word by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code ETMA+34 (89A) or ETMA+54 (92A AND UP) (table 2, WP010 19).		
(2) Record DDI DATA readout. Interpret data using table 7 (this WP) . . . . .	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 2. Station 1 Word 1 Data Readout Interpretation**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>Refer to table 1 for station test word address.</p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; memory inspect signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>Use Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) to isolate signal line failures.</p> <p align="center"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X23XXX	AIM-9 Audio		61P-U021A pin 19	Do table 1, WP037 05.
X4XXXX	No Store Present	AIM-9 Ident	61P-U021A pin 26	Do table 2, WP037 05.
X2XXXX	Twenty Five Volts	115vac $\phi$ C	61P-U021A pin 9	Do table 3, WP037 05.
		Ground	61P-U021A pin 16	
		Coolant Control	61P-U021A pin 20	
		AIM-9 Audio	61P-U021A pin 19	
		Launch Command	61P-U021A pin 1	
		Master Arm	61P-U021A pin 6	

Table 2. Station 1 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X1XXXX	End To End Tester Present	AIM-9 Ident	61P-U021A pin 26	Do table 4, WP037 05.
XX4XXX	Stray Voltage	115vac $\phi$ C	61P-U021A pin 9	Do table 5, WP037 05.
		Ground	61P-U021A pin 16	
XX2XXX	Fire Test	Launch Command	61P-U021A pin 1	Do table 6, WP037 05.
		Master Arm	61P-U021A pin 6	
XX1XXX	Stray Voltage BIT	Launch Command	61P-U021A pin 1	Do table 7, WP037 05.
		Master Arm	61P-U021A pin 6	
XXX4XX	Fire OFF	Launch Command	61P-U021A pin 1	Do table 6, WP037 05.
		Master Arm	61P-U021A pin 6	
XXX2XX	Head Command	Head Command	61P-U021A pin 22	Do table 8, WP037 05.
		Manual Uncage	61P-U021A pin 25	
XXX1XX	Uncage	Acquisition Lambda	61P-U021A pin 21	Do table 9, WP037 05.
		Right/Left Reference	61P-U021A pin 23	
XXXX4X	Stray Voltage	115vac $\phi$ C	61P-U021A pin 9	Do table 5, WP037 05.
		Ground	61P-U021A pin 16	
XXXX2X	Power OFF	L 28vdc	61P-U021A pin 15	Do table 10, WP037 05.

**Table 3. Station 2 Left Word 1 Data Readout Interpretation**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p style="text-align: center;"><b>NOTE</b></p> <p>Refer to table 1 for station test word address.</p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; memory inspect signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Connector 61P-W213 is used when a LAU-7 is installed. Connector 61J-254 is used when a LAU-127 is installed. Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>Use Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) to isolate signal line failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X23XXX	AIM-9 Audio		61P-W213 pin 19 or <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> 61J-W254 pin 42	Do table 1, WP037 06.
X4XXXX	No Store Present	AIM-9 Ident	61P-W213 pin 26 or <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> 61J-W254 pin 38	Do table 2, WP037 06.
X2XXXX	Twenty Five Volts	115vac $\phi$ C	61P-W213 pin 9 or <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> 61J-W254 pin 52	Do table 3, WP037 06.
		Ground	61P-W213 pin 16 or <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> 61J-W254 pin 53	
		Coolant Control	61P-W213 pin 20 or <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> 61J-W254 pin 10	

Table 3. Station 2 Left Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X1XXXX	End To End Tester Present	AIM-9 Audio	61P-W213 pin 19 or 61J-W254 pin 42	Do table 4, WP037 06.
		Launch Command	61P-W213 pin 1 or 61J-W254 pin 4	
		Master Arm (LAU-7)	61P-W213 pin 6	
		61J-W254 LAU-127 Unlock Command 2	61P-W254 pin 26	
		61J-W254 LAU-127 Unlock Command 1	61P-W254 pin 18	
XX4XXX	Stray Voltage	115vac $\phi$ C	61P-W213 pin 9 or 61J-W254 pin 52	Do table 5, WP037 06.
XX2XXX	Fire Test	Ground	61P-W213 pin 16 or 61J-W254 pin 53	Do table 6, WP037 06.
		Launch Command	61P-W213 pin 1 or 61J-W254 pin 4	
		Master Arm (LAU-7)	61P-W213 pin 6	
		61J-W254 LAU-127 Unlock Command 2	61J-W254 pin 26	
		61J-W254 LAU-127 Unlock Command 1	61J-W254 pin 18	



Table 3. Station 2 Left Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XX1XXX	Stray Voltage BIT	Launch Command  Master Arm (LAU-7)  LAU-127 Unlock Command 2  LAU-127 Unlock Command 1	61P-W213 pin 1 or 61J-W254 pin 4  61P-W213 pin 6  61J-W254 pin 26  61J-W254 pin 18	Do table 1, WP037 07.
XXX4XX	Fire OFF	Launch Command  Master Arm (LAU-7)  LAU-127 Unlock Command 2  LAU-127 Unlock Command 1	61P-W213 pin 1 or 61J-W254 pin 4  61P-W213 pin 6  61J-W254 pin 26  61J-W254 pin 18	Do table 6, WP037 06.
XXX2XX	Head Command	Head Command  Manual Uncage	61P-W213 pin 22 or 61J-W254 pin 15  61P-W213 pin 25 or 61J-W254 pin 8	Do table 2, WP037 07.
XXX1XX	Uncage	Acquisition Lambda  Right/Left Reference	61P-W213 pin 21 or 61J-W254 pin 16  61P-W213 pin 23 or 61J-W254 pin 44	Do table 3, WP037 07.
XXXX4X	Stray Voltage	115vac $\phi$ C  Ground	61P-W213 pin 9 or 61J-W254 pin 52  61P-W213 pin 16 or 61J-W254 pin 53	Do table 5, WP037 06.

**Table 3. Station 2 Left Word 1 Data Readout Interpretation (Continued)**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XXXX2X	Power OFF	L 28vdc	61P-W213 pin 15 or <div>1</div> 61J-W254 pin 30	Do table 4, WP037 07.
<b>LEGEND</b>  <div>1</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.				

**Table 4. Station 2 Right Word 2 Data Readout Interpretation**

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<b>NOTE</b>  Refer to table 1 for station test word address.  When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; memory inspect signal lines for data readout XX4XXX and XX1XXX.  Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Connector 61P-W212 is used when a LAU-7 is installed. Connector 61J-W253 is used when a LAU-127 is installed. Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.  Use Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) to isolate signal line failures.  WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.  WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.				
X23XXX	AIM-9 Audio		61P-W212 pin 19 or <div>1</div> 61J-W253 pin 42	Do table 1, WP037 08.
X4XXXX	No Store Present	AIM-9 Ident	61P-W212 pin 26 or <div>1</div> 61J-W253 pin 38	Do table 2, WP037 08.

Table 4. Station 2 Right Word 2 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X2XXXX	Twenty Five Volts	115vac $\phi$ C	61P-W212 pin 9 or 1 61J-W253 pin 52	Do table 3, WP037 08.
		Ground	61P-W212 pin 16 or 1 61J-W253 pin 53	
		Coolant Control	61P-W212 pin 20 or 1 61J-W253 pin 10	
		AIM-9 Audio	61P-W212 pin 19 or 1 61J-W253 pin 42	
		Launch Command	61P-W212 pin 1 or 1 61J-W253 pin 4	
		Master Arm (LAU-7)	61P-W212 pin 6	
		1 LAU-127 Unlock Command 2	61J-W254 pin 26	
		1 LAU-127 Unlock Command 1	61J-W254 pin 18	
X1XXXX	End To End Tester Present	AIM-9 Ident	61P-W212 pin 26 or 1 61J-W253 pin 38	Do table 4, WP037 08.
XX4XXX	Stray Voltage	115vac $\phi$ C	61P-W212 pin 9 or 1 61J-W253 pin 52	Do table 5, WP037 08.
		Ground	61P-W212 pin 16 or 1 61J-W253 pin 53	
XX2XXX	Fire Test	Launch Command	61P-W212 pin 1 or 1 61J-W253 pin 4	Do table 6, WP037 08.
		Master Arm (LAU-7)	61P-W212 pin 6	
		1 LAU-127 Unlock Command 2	61J-W253 pin 26	
		1 LAU-127 Unlock Command 1	61J-W253 pin 18	
XX1XXX	Stray Voltage BIT	Launch Command	61PW212 pin 6 or 1 61J-W253 pin 4	Do table 1, WP037 09.

Table 4. Station 2 Right Word 2 Data Readout Interpretation (Continued)














Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
		Master Arm (LAU-7)	61P-W212 pin 6	
		 LAU-127 Unlock Command 2	61J-W253 pin 26	
		 LAU-127 Unlock Command 1	61J-W253 pin 18	
XXX4XX	Fire OFF	Launch Command	61P-W212 pin 1 or  61J-W253 pin 4	Do table 6, WP037 08.
		Master Arm (LAU-7)	61P-W212 pin 6	
		 LAU-127 Unlock Command 2	61J-W253 pin 26	
		 LAU-127 Unlock Command 1	61J-W253 pin 18	
XXX2XX	Head Command	Head Command	61P-W212 pin 22 or  61J-W253 pin 15	Do table 2, WP037 08.
		Manual Uncage	61P-W212 pin 25 or  61J-W253 pin 8	
XXX1XX	Uncage	Acquisition Lambda	61P-W212 pin 21 or  61J-W253 pin 16	Do table 3, WP037 09.
		Right/Left Reference	61P-W212 pin 23 or  61J-W253 pin 44	
XXXX4X	Stray Voltage	115vac $\phi$ C	61P-W212 pin 9 or  61J-W253 pin 52	Do table 5, WP037 08.
		Ground	61P-W212 pin 16 or  61J-W253 pin 53	
XXXX2X	Power OFF	L 28vdc	61P-W212 pin 15 or  61J-W253 pin 30	Do table 4, WP037 09.
<b>LEGEND</b>				
 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292				

Table 5. Station 8 Left Word 1 Data Readout Interpretation

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p align="center"><b>NOTE</b></p> <p>Refer to table 1 for station test word address.</p> <p>When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; memory inspect signal lines for data readout XX4XXX and XX1XXX.</p> <p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Connector 61P-W213 is used when a LAU-7 is installed. Connector 61J-W254 is used when a LAU-127 is installed. Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>Use Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) to isolate signal line failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X23XXX	AIM-9 Audio		61P-W213 pin 19 or 1 61J-W254 pin 42	Do table 5, WP037 07.
X4XXXX	No Store Present	AIM-9 Ident	61P-W213 pin 26 or 1 61J-W254 pin 38	Do table 2, WP037 06.
X2XXXX	Twenty Five Volts	115vac $\phi$ C	61P-W213 pin 9 or 1 61J-W254 pin 52	Do table 3, WP037 06.
		Ground	61P-W213 pin 16 or 1 61J-W254 pin 53	
		Coolant Control	61P-W213 pin 20 or 1 61J-W254 pin 10	
		AIM-9 Audio	61P-W213 pin 19 or 1 61J-W254 pin 42	
		Launch Command	61P-W213 pin 1 or 1 61J-W254 pin 4	

Table 5. Station 8 Left Word 1 Data Readout Interpretation (Continued)













Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X1XXXX	End To End Tester Present	Master Arm (LAU-7)	61P-W213 pin 6	Do table 4, WP037 06.
		 LAU-127 Unlock Command 2	61J-W254 pin 26	
		 LAU-127 Unlock Command 1	61J-W254 pin 18	
		AIM-9 Ident	61P-W213 pin 26 or  61J-W254 pin 38	
XX4XXX	Stray Voltage	115vac $\phi$ C	61P-W213 pin 9 or  61J-W254 pin 52	Do table 5, WP037 06.
		Ground	61P-W213 pin 16 or  61J-W254 pin 53	
XX2XXX	Fire Test	Launch Command	61P-W213 pin 1 or  61J-W254 pin 4	Do table 6, WP037 06.
		Master Arm (LAU-7)	61P-W213 pin 6	
		 LAU-127 Unlock Command 2	61J-W254 pin 26	
		 LAU-127 Unlock Command 1	61J-W254 pin 18	
XX1XXX	Stray Voltage BIT	Launch Command	61P-W213 pin 1 or  61J-W254 pin 4	Do table 1, WP037 07.
		Master Arm (LAU-7)	61P-W213 pin 6	
		 LAU-127 Unlock Command 2	61J-W254 pin 26	
		 LAU-127 Unlock Command 1	61J-W254 pin 18	
XXX4XX	Fire OFF	Launch Command	61P-W213 pin 1 or  61J-W254 pin 4	Do table 6, WP037 06.
		Master Arm (LAU-7)	61P-W213 pin 6	

Table 5. Station 8 Left Word 1 Data Readout Interpretation (Continued)











Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XXX2XX	Head Command	 LAU-127 Unlock Command 2	61J-W254 pin 26	Do table 2, WP037 07.
		 LAU-127 Unlock Command 1	61J-W254 pin 18	
XXX1XX	Uncage	Head Command	61P-W213 pin 22 or  61J-W254 pin 15	Do table 3, WP037 07
		Manual Uncage	61P-W213 pin 25 or  61J-W254 pin 8	
		Acquisition Lambda	61P-W213 pin 21 or  61J-W254 pin 16	
		Right/Left Reference	61P-W213 pin 23 or  61J-W254 pin 44	
XXXX4X	Stray Voltage	115vac $\phi$ C	61P-W213 pin 9 or  61J-W254 pin 52	Do table 5, WP037 06.
		Ground	61P-W213 pin 16 or  61J-W254 pin 53	
XXXX2X	Power OFF	R 28vdc	61P-W213 pin 15 or  61J-W254 pin 30	Do table 4, WP037 07.
<b>LEGEND</b>				
 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.				

Table 6. Station 8 Right Word 2 Data Readout Interpretation

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<b>NOTE</b>				
Refer to table 1 for station test word address.				
When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; memory inspect signal lines for data readout XX4XXX and XX1XXX.				

Table 6. Station 8 Right Word 2 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<p>Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Connector 61P-W212 is used when a LAU-7 is installed. Connector 61J-W253 is used when a LAU-127 is installed. Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.</p> <p>Use Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) to isolate signal line failures.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>				
X23XXX	AIM-9 Audio		61P-W212 pin 19 or 1 61J-W253 pin 42	Do table 5, WP037 09.
X4XXXX	No Store Present	AIM-9 Ident	61P-W212 pin 26 or 1 61J-W253 pin 38	Do table 2, WP037 08.
X2XXXX	Twenty Five Volts	115vac $\phi$ C	61P-W212 pin 9 or 1 61J-W253 pin 52	Do table 3, WP037 08.
		Ground	61P-W212 pin 16 or 1 61J-W253 pin 53	
		Coolant Control	61P-W212 pin 20 or 1 61J-W253 pin 10	
		AIM-9 Audio	61P-W212 pin 19 or 1 61J-W253 pin 42	
		Launch Command	61P-W212 pin 1 or 1 61J-W253 pin 4	
		Master Arm (LAU-7)	61P-W212 pin 6	
		1 LAU-127 Unlock Command 2	61J-W253 pin 26	
		1 LAU-127 Unlock Command 1	61J-W253 pin 18	



Table 6. Station 8 Right Word 2 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
X1XXXX	End To End Tester Present	AIM-9 Ident	61P-W212 pin 26 or 1 61J-W253 pin 38	Do table 4, WP037 08.
XX4XXX	Stray Voltage	115vac $\phi$ C	61P-W212 pin 9 or 1 61J-W253 pin 52	Do table 5, WP037 08.
XX2XXX	Fire Test	Ground	61P-W212 pin 16 or 1 61J-W253 pin 53	Do table 6, WP037 08.
XX1XXX	Stray Voltage BIT	Launch Command	61P-W212 pin 1 or 1 61J-W253 pin 4	
		Master Arm (LAU-7)	61P-W212 pin 6	
		1 LAU-127 Unlock Command 2	61J-W253 pin 26	
		1 LAU-127 Unlock Command 1	61J-W253 pin 18	
		Launch Command	61P-W212 pin 1 or 1 61J-W253 pin 4	Do table 1, WP037 09.
		Master Arm (LAU-7)	61P-W212 pin 6	
		1 LAU-127 Unlock Command 2	61J-W253 pin 26	
		1 LAU-127 Unlock Command 1	61J-W253 pin 18	
XXX4XX	Fire OFF	Launch Command	61P-W212 pin 1 or 1 61J-W253 pin 4	Do table 6, WP037 08.
XXX2XX	Head Command	Master Arm (LAU-7)	61P-W212 pin 6	Do table 2, WP037 08.
		1 LAU-127 Unlock Command 2	61J-W253 pin 26	
		1 LAU-127 Unlock Command 1	61J-W253 pin 18	
		Head Command	61P-W212 pin 22 or 1 61J-W253 pin 15	

Table 6. Station 8 Right Word 2 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XXX1XX	Uncage	Manual Uncage	61P-W212 pin 25 or 1 61J-W253 pin 8	Do table 3, WP037 09.
		Acquisition Lambda	61P-W212 pin 21 or 1 61J-W253 pin 16	
		Right/Left Reference	61P-W212 pin 23 or 1 61J-W253 pin 44	
XXXX4X	Stray Voltage	115vac $\phi$ C	61P-W212 pin 9 or 1 61J-W253 pin 52	Do table 5, WP037 08.
		Ground	61P-W212 pin 16 or 1 61J-W253 pin 53	
XXXX2X	Power OFF	R 28vdc	61P-W212 pin 15 or 1 61J-W253 pin 30	Do table 4, WP037 09.
<b>LEGEND</b>				
1 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.				

Table 7. Station 9 Word 1 Data Readout Interpretation

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
<b>NOTE</b>				
Refer to table 1 for station test word address.				
When data readout is other than listed in the Data Readout column, multiple fails exist. Troubleshoot all signal lines for the test/signal descriptions which add up to the existing data readout. There are six octal locations, each location can read 0 to 7. EXAMPLE: Data readout is XX5XXX; memory inspect signal lines for data readout XX4XXX and XX1XXX.				
Launcher Connector/Pin Column lists the launcher disconnect/pin for the failed signal line(s). Troubleshoot signal lines using the table/work package listed in the Maintenance Action Column. Table 1 lists the components that can cause these failures.				
Use Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) to isolate signal line failures.				
WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.				

Table 7. Station 9 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.				
X23XXX	AIM-9 Audio		61P-V029A pin 19	Do table 1, WP037 10.
X4XXXX	No Store Present	AIM-9 Ident	61P-V029A pin 26	Do table 2, WP037 10.
X2XXXX	Twenty Five Volts	115vac $\phi$ C	61P-V029A pin 9	Do table 3, WP037 10
		Ground	61P-V029A pin 16	
		Coolant Control	61P-V029A pin 20	
		AIM-9 Audio	61P-V029A pin 19	
		Launch Command	61P-V029A pin 1	
		Master Arm	61P-V029A pin 6	
X1XXXX	End To End Tester Present	AIM-9 Ident	61P-V029A pin26	Do table 4, WP037 10.
XX4XXX	Stray Voltage	115vac $\phi$ C	61P-V029A pin 9	Do table 5, WP037 10.
XX2XXX	Fire Test	Ground	61P-V029A pin 16	Do table 6, WP037 10.
		Launch Command	61P-V029A pin 1	
XX1XXX	Stray Voltage BIT	Master Arm	61P-V029A pin 6	Do table 7, WP037 10.
		Launch Command	61P-V029A pin 1	
XXX4XX	Fire OFF	Launch Command	61P-V029A pin 1	Do table 6, WP037 10.
		Master Arm	61P-V029A pin 6	

Table 7. Station 9 Word 1 Data Readout Interpretation (Continued)

Data Readout	Test	Signal Line	Launcher Connector/Pin	Maintenance Action
XXX2XX	Head Command	Head Command	61P-V029A pin 22	Do table 8, WP037 10.
XXX1XX	Uncage	Manual Uncage	61P-V029A pin 25	
		Acquisition Lambda	61P-V029A pin 21	Do table 9, WP037 10.
		Right/Left Reference	61P-V029A pin 23	
XXXX4X	Stray Voltage	115vac $\phi$ C	61P-V029A pin 9	Do table 5, WP037 10.
		Ground	61P-V029A pin 16	
XXXX2X	Power OFF	R 28vdc	61P-V029A pin 15	Do table 10, WP037 10.

Table 8. Flowmeter Does Not Indicate Flow Above 25

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) or Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.	
For component location, refer to WP007 00.	
Malfunction is caused by one of the items listed below:	
<div> <div>1</div> <div> Aircraft Guided Missile Launcher LAU-115C/A  Aircraft Guided Missile Launcher LAU-127A/A  Aircraft Guided Missile Launcher LAU-7( )  Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  LAU-115 Jumper Cable W56235  Wing Command Signal Encoder-Decoder KY-851/AYQ-9(V)  Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) </div> </div>	


**Table 8. Flowmeter Does Not Indicate Flow Above 25 (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>This procedure includes wing tip stations 1 and 9 or wing pylon stations 2 and 8.</p>		
a. Is this trouble at wing tip station? .....	b	g
b. On wing pylon station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 502 and 504 on wing pylon (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V).		
(4) Disconnect 61P-W095B from Aircraft Guided Missile Launcher LAU-115C/A.		
(5) Does continuity exist between:		
61P-W012D pin y and 61P-W095B pin E		
61P-W012D pin EE and 61P-W095B pin u		
61P-W012D pin c and 61P-W095B pin x? .....	c	d
c. Do substeps listed below:		
(1) Disconnect 61P-W093 between 61J-W093 AIR-AIR receptacle on pylon stores electrical disconnect panel.		
(2) Does continuity exist between:		
61P-W012D pin y and 61J-W093 pin 59		
61P-W012D pin EE and 61J-W093 pin 76		
61P-W012D pin c and 61J-W093 pin 74? .....	e	g
d. Malfunction is caused by one of the items listed below:		
(1) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		

Table 8. Flowmeter Does Not Indicate Flow Above 25 (Continued)

Procedure	No	Yes
(2) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).		
(3) Aircraft Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).		
(4) Aircraft Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
Do step j .....	-	-
e. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step j ...	-	-
f. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00 and do step j ....	-	-
g. On wing tip station, do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 144L or 144R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-U021A or 61P-V029A from Guided Missile Launcher LAU-7( ).		
(4) Open door 159L or 159R (A1-F18AC-LMM-010).		
(5) Disconnect 61P-V019B or 61P-U011B from Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V).		
(6) Does continuity exist between:		
Station 1,		
61P-U021A pin 20 and 61P-U011B pin 15		
61P-U021A pin 26 and 61P-U011B pin 3		
61P-U021A pin 16 and aircraft ground		
or Station 9,		
61P-V029A pin 20 and 61P-V019B pin 15		
61P-V029A pin 26 and 61P-V019B pin 3		
61P-V029A pin 16 and aircraft ground? .....	h	i
h. Isolate defective wiring (A1-F18A( )-WDM-000) and do step j .....	-	-
i. Malfunction is caused by one of the items listed below:		
(1) Left or Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
(2) Aircraft Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00)		
Do step j .....	-	-

**Table 8. Flowmeter Does Not Indicate Flow Above 25**

Procedure	No	Yes
j. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:  (1) 61P-U011B  (2) 61P-V019B  (3) 61P-U021A  (4) 61P-V029A  (5) 61P-W012D  (6) 61P-W095B  (7) 61J/P-W093  (8) Door 144L/R  (9) Door 159L/R  (10) Door 502 and 504 .....	-	-
<b>LEGEND</b>		
 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		





## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-9 WEAPON SYSTEM END TO END TEST, PART 1

## SUSPENSION AND RELEASE MECHANISMS

## EFFECTIVITY: 161925 AND UP

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Station 1 Word 1 Data Readout X23XXX

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Armament Computer Input/Output Interface Schematic and Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP011 00 and WP046 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Guided Missile Launcher LAU-7( )		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"><li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li><li>(2) Remove door 144L (A1-F18AC-LMM-010).</li></ol>		

Table 1. Station 1 Word 1 Data Readout X23XXX (Continued)


Procedure	No	Yes
<div style="text-align: center;">  </div> <p>When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p> <p>(3) Disconnect 61P-U021A from J1 on LAU-7.</p> <p>(4) Open door 14R (A1-F18AC-LMM-010).</p> <p>(5) Disconnect 61P-F001B from J2 on Armament Computer CP-1342/AYQ-9(V).</p> <p>(6) Does continuity exist between:</p> <p style="padding-left: 40px;">61P-U021A pin 18 and 61P-F001B pin 87</p> <p style="padding-left: 40px;">61P-U021A pin 19 and 61P-F001B pin 99? .....</p> <p>b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step d .....</p> <p>c. Malfunction is caused by one of the items listed below:</p> <p style="padding-left: 40px;">(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p style="padding-left: 40px;">(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).</p> <p>Do step d .....</p> <p>d. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:</p> <p style="padding-left: 40px;">(1) 61P-F001B</p> <p style="padding-left: 40px;">(2) 61P-U021A</p> <p style="padding-left: 40px;">(3) Door 14R</p> <p style="padding-left: 40px;">(4) Door 144L .....</p>		
	b	c
	-	-
	-	-
	-	-
	-	-


Table 2. Station 1 Word 1 Data Readout X4XXXX

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

**Table 2. Station 1 Word 1 Data Readout X4XXXX (Continued)**

Materials Required		
None		
<b>NOTE</b>		
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below.		
Aircraft Wiring		
Guided Missile Launcher LAU-7( )		
Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"><b>CAUTION</b></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect AIM-9 test adapter cable from LAU-7 umbilical connector, J2.</li> <li>(3) Open door 159L (A1-F18AC-LMM-010).</li> <li>(4) Disconnect 61P-U011B from J2 on encoder-decoder.</li> <li>(5) Does continuity exist between LAU-7 umbilical connector J2 pin 14 and aircraft ground? .....</li> </ol>		
	b	c

**Table 2. Station 1 Word 1 Data Readout X4XXXX (Continued)**

Procedure	No	Yes
b. Replace Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00) and do step f .....	-	-
c. Do substeps listed below:		
(1) Open door 144L (A1-F18AC-LMM-000).		
<div style="text-align: center;">  </div>		
<p style="text-align: center;">When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(2) Disconnect 61P-U021A from J1 on LAU-7.		
(3) Does continuity exist between 61P-U021A pin 26 and aircraft ground? .....	d	e
d. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step f .....	-	-
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 61P-U011B		
(2) 61P-U021A		
(3) Door 144L		
(4) Door 159L .....	-	-

**Table 3. Station 1 Word 1 Data Readout X2XXXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 3. Station 1 Word 1 Data Readout X2XXXX (Continued)**

NOTE		
<p>Armament Computer Input/Output Interface Schematic and Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP011 00 and WP046 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  Guided Missile Launcher LAU-7( )  Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below.</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect AIM-9 test adapter cable from LAU-7 umbilical connector J2.</li> <li>(3) Install a jumper wire between LAU-7 umbilical connector J2 pin 14 and aircraft ground.</li> <li>(4) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</li> <li>(6) Does 115vac exist between LAU-7 umbilical connector J2 pin 1 and aircraft ground? .....</li> </ol>	b	e

Table 3. Station 1 Word 1 Data Readout X2XXXX (Continued)




Procedure	No	Yes
b. Do substeps listed below (1) Turn off electrical power (A1-F18AC-LMM-000). (2) Open door 144L (A1-F18AC-LMM-010). <div style="text-align: center;"></div> <p style="text-align: center;">When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p> (3) Disconnect 61P-U021A from J1 on LAU-7. (4) Install a jumper wire between 61P-U021A pin 26 and aircraft ground. (5) Turn on electrical power (A1-F18AC-LMM-000). (6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds. (7) Does 115vac exist between 61P-U021A pin 9 and aircraft ground? .....		
c. Do table 1, WP037 11 .....	-	-
d. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step k .....	-	-
e. Do substeps listed below: (1) Turn off electrical power (A1-F18AC-LMM-000). (2) Does continuity exist between LAU-7 umbilical connector J2 pin 6 and aircraft ground? .....	f	h
f. Do substeps listed below: (1) Open door 144L (A1-F18AC-LMM-010). <div style="text-align: center;"></div> <p style="text-align: center;">When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p> (2) Disconnect 61P-U021A from J1 on LAU-7		

Table 3. Station 1 Word 1 Data Readout X2XXXX (Continued)

Procedure	No	Yes
(3) Does continuity exist between 61P-U021A pin 16 and aircraft ground? .....	g	d
g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step k .....	-	-
h. Do substeps listed below:		
(1) Open door 144L (A1-F18AC-LMM-000).		
<div style="text-align: center;">  </div>		
<p style="text-align: center;">When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(2) Disconnect 61P-U021A from J1 on LAU-7.		
(3) Open door 14R (A1-F18AC-LMM-010).		
(4) Disconnect 61P-F001B from J2 on armament computer.		
(5) Does continuity exist between:		
61P-U021A pin 19 and 61P-F001B pin 99		
61P-U021A pin 18 and 61P-F001B pin 87? .....	g	i
i. Do substeps listed below:		
(1) Open door 159L (A1-F18AC-LMM-000).		
(2) Disconnect 61P-U011B from J2 on encoder-decoder.		
(3) Does continuity exist between:		
61P-U021A pin 1 and 61P-U011B pin 8		
61P-U021A pin 6 and 61P-U011B pin 9		
61P-U021A pin 20 and 61P-U011B pin 15? .....	g	j
j. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(3) Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
Do step k .....	-	-





**Table 3. Station 1 Word 1 Data Readout X2XXXX (Continued)**

Procedure	No	Yes
k. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-F001B		
(2) 61P-U011B		
(3) 61P-U021A		
(4) Door 14R		
(5) Door 144L		
(6) Door 159L		
(7) Jumper Wire (J2 on Launcher) .....	-	-

**Table 4. Station 1 Word 1 Data Readout X1XXXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Armament Computer Input/Output Interface Schematic and Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP011 00 and WP046 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wiring	
Armament Computer CP-1342/AYQ-9(V)	
Guided Missile Launcher LAU-7( )	
Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)	

Table 4. Station 1 Word 1 Data Readout X1XXXX (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect AIM-9 test adapter cable from LAU-7 umbilical connector J2.</li> <li>(3) Open door 159L (A1-F18AC-LMM-010).</li> <li>(4) Disconnect 61P-U011B from J2 on encoder-decoder.</li> <li>(5) Does continuity exist between LAU-7 umbilical connector J2 pin 14 and 61P-U011B pin 3? .....</li> </ol>	b	e
<p>b. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Open door 144L (A1-F18C-LMM-010).</li> </ol>		
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p>		
<ol style="list-style-type: none"> <li>(2) Disconnect 61P-U021A from J1 on LAU-7.</li> <li>(3) Does continuity exist from 61P-U021A pin 26 to 61P-U011B pin 3? .....</li> </ol>	c	d
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step g .....	-	-

**Table 4. Station 1 Word 1 Data Readout X1XXXX (Continued)**

Procedure	No	Yes
d. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step g .....	-	-
e. Do substeps listed below:		
(1) Open door 14R (A1-F18AC-LMM-010).		
(2) Disconnect 61P-F001B from J2 on armament computer.		
(3) Does continuity exist from 61P-U011B pin 10 to 61P-F001B pin 97? .....	c	f
f. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
Do step g .....	-	-
g. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-F001B		
(2) 61P-U011B		
(3) 61P-U021A		
(4) Doors 14R, 159L and 144L .....	-	-

**Table 5. Station 1 Word 1 Data Readout XX4XXX or XXXX4X**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 5. Station 1 Word 1 Data Readout XX4XXX or XXXX4X (Continued)**

NOTE		
<p>Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wiring Guided Missile Launcher LAU-7( )</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>WARNING</b></p> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ol style="list-style-type: none"> <li>Start testing with multimeter on highest range scale.</li> <li>Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>Test for AC and DC voltages.</li> <li>Record any stray voltage reading as an aid when doing further troubleshooting.</li> </ol> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>Pin to pin test per procedural step.</li> <li>Shorts to ground.</li> <li>Shorts between surrounding pins on connectors.</li> <li>Shorts between shield and conductors.</li> <li>Shield continuity.</li> </ol> <p>Test for AC and DC voltages. Record any stray voltage readings as an aid when doing further troubleshooting.</p>		

Table 5. Station 1 Word 1 Data Readout XX4XXX or XXXX4X (Continued)


Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 144L (A1-F18AC-LMM-010).</p> <div style="text-align: center;">  <p>CAUTION</p> </div> <p>When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(3) Disconnect 61P-U021A from J1 on LAU-7.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 61P-U021A pin 9 and aircraft ground? .....	b	e
b. Does stray voltage exist between 61P-U021A pin 16 and aircraft ground? .....	c	d
c. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step f .....	-	-
d. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
e. Do table 1, WP037 11 .....	-	-
f. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed:		
(1) 61P-U021A		
(2) Door 144L .....	-	-

Table 6. Station 1 Word 1 Data Readout XX2XXX or XXX4XX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Guided Missile Launcher LAU-7( ) Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;">NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p>		

Table 6. Station 1 Word 1 Data Readout XX2XXX or XXX4XX (Continued)


Procedure	No	Yes
(1) Turn off electrical power (A1-F18AC-LMM-000). (2) Open door 144L (A1-F18AC-LMM-010).		
<div style="text-align: center;">  </div> <p style="text-align: center;">When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(3) Disconnect 61P-U021A from J1 on LAU-7. (4) Open door 159L (A1-F18AC-LMM-010). (5) Disconnect 61P-U011B from J2 on encoder-decoder. (6) Does continuity exist between: 61P-U021A pin 1 and 61P-U011B pin 8 61P-U021A pin 6 and 61P-U011B pin 9? .....	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step d .....	-	-
c. Malfunction is caused by one of the items listed below:		
(1) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(2) Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
Do step d .....	-	-
d. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-U011B		
(2) 61P-U021A		
(3) Door 144L		
(4) Door 159L .....	-	-

Table 7. Station 1 Word 1 Data Readout XX1XXX

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 40px;">Aircraft Wiring Guided Missile Launcher LAU-7( ) Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 20px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>WARNING</b></div> </div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; margin-bottom: 20px;"> <div style="border: 2px solid black; padding: 5px; display: inline-block;"><b>CAUTION</b></div> </div> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage readings as an aid when doing further trouble-shooting.</li> </ol> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		



Table 7. Station 1 Word 1 Data Readout XX1XXX (Continued)


Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 144L (A1-F18AC-LMM-010).		
		
<p>When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p>		
<p><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(3) Disconnect 61P-U021A from J1 on LAU-7.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
61P-U021A pin 1 and aircraft ground		
61P-U021A pin 6 and aircraft ground? .....	b	c
b. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step f .....	-	-
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 159L (A1-F18AC-LMM-010).		
(3) Disconnect 61P-U011B from J2 on encoder-decoder.		

Table 7. Station 1 Word 1 Data Readout XX1XXX (Continued)

Procedure	No	Yes
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
61P-U021A pin 1 and aircraft ground		
61P-U021A pin 6 and aircraft ground? .....	d	e
d. Replace Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00) and do step f .....	-	-
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-U011B		
(2) 61P-U021A		
(3) Door 144L		
(4) Door 159L .....	-	-

Table 8. Station 1 Word 1 Data Readout XXX2XX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Guided Missile Launcher LAU-7( ) Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;">NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p>		

Table 8. Station 1 Word 1 Data Readout XXX2XX (Continued)

Procedure	No	Yes
(1) Turn off electrical power (A1-F18AC-LMM-000). (2) Disconnect AIM-9 test adapter cable from LAU-7 umbilical connector J2. (3) Open door 159L (A1-F18AC-LMM-010). (4) Disconnect 61P-U011A from J1 on encoder-decoder. (5) Does continuity exist between: J2 pin 23 to 61P-U011A pin 13 J2 pin 30 to 61P-U011A pin 13 J2 pin 6 to 61P-U011A pin 14? .....	b	e
b. Do substeps listed below:		
(1) Open door 144L (A1-F18AC-LMM-010).		
<div style="text-align: center;"><b>CAUTION</b></div> <p>When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(2) Disconnect 61P-U021A from J1 on the LAU-7.		
(3) Does continuity exist between: 61P-U021A pin 22 and 61P-U011A pin 13 61P-U021A pin 18 and 61P-U011A pin 14? .....	c	d
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step g .....	-	-
d. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step g .....	-	-
e. Do substeps listed below:		
(1) Open door 144L (A1-F18AC-LMM-010).		
<div style="text-align: center;"><b>CAUTION</b></div> <p>When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(2) Disconnect 61P-U021A from J1 on LAU-7.		

**Table 8. Station 1 Word 1 Data Readout XXX2XX (Continued)**

Procedure	No	Yes
(3) In door 159L, disconnect 61P-U011B from J2 on encoder-decoder.		
(4) Does continuity exist between 61P-U021A pin 25 and 61P-U011B pin 5?.....	c	f
f. Malfunction caused by one of the items listed below:		
(1) Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
Do step g .....	-	-
g. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-U011A		
(2) 61P-U011B		
(3) 61P-U021A		
(4) Door 144L		
(5) Door 159L .....	-	-

**Table 9. Station 1 Word 1 Data Readout XXX1XX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 9. Station 1 Word 1 Data Readout XXX1XX (Continued)**

NOTE		
<p>Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wiring  Guided Missile Launcher LAU-7( )  Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000)</p> <p>(2) Disconnect AIM-9 test adapter cable from LAU-7 umbilical connector J2.</p> <p>(3) Open door 159L (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-U011A from J1 on encoder-decoder.</p> <p>(5) Does continuity exist between:</p> <p>J2 pin 34 and 61P-U011A pin 5</p> <p>J2 pin 5 and 61P-U011A pin 9</p> <p>J2 pin 6 and 61P-U011A pin 6</p> <p>J2 pin 6 and 61P-U011A pin 10? .....</p>	<p>b</p>	<p>e</p>

Table 9. Station 1 Word 1 Data Readout XXX1XX (Continued)


Procedure	No	Yes
b. Do substeps listed below:  (1) Open door 144L (A1-F18AC-LMM-010).  <div style="text-align: center;">  </div> When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.  (2) Disconnect 61P-U021A from J1 on LAU-7.  (3) Does continuity exist between:  61P-U021A pin 23 and 61P-U011A pin 5 61P-U021A pin 21 and 61P-U011A pin 9 61P-U021A pin 18 and 61P-U011A pin 6 61P-U021A pin 18 and 61P-U011A pin 10? .....		
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step f .....	-	-
e. Replace Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00) and do step f .....	-	-
f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:  (1) 61P-U011A  (2) 61P-U021A  (3) Door 144L  (4) Door 159L .....	-	-

Table 10. Station 1 Word 1 Data Readout XXXX2X


Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

Table 10. Station 1 Word 1 Data Readout XXXX2X (Continued)

Materials Required		
None		
<b>NOTE</b>		
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Guided Missile Launcher LAU-7( )		
Procedure	No	Yes
<b>CAUTION</b>		
To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.		
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step.		
2. Shorts to ground.		
3. Shorts between surrounding pins on connectors.		
4. Shorts between shield and conductors.		
5. Shield continuity.		
a Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 144L (A1-F18AC-LMM-010).		



Table 10. Station 1 Word 1 Data Readout XXXX2X (Continued)

Procedure	No	Yes
<div style="text-align: center;">  </div> <p>When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(3) Disconnect 61P-U021A from J1 on LAU-7.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does 28vdc exist between 61P-U021A pin 15 and aircraft ground? .....	b	c
b. Isolate defective aircraft wiring between 61P-U021A pin 15 and 61P-U011B pin 4 (A1-F18A( )-WDM-000) and do step d .....	-	-
c. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-510, WP024 00) and do step d .....	-	-
d. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-U021A		
(2) Door 144L .....	-	-



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-9 WEAPON SYSTEM END TO END TEST, PART 2

## SUSPENSION AND RELEASE MECHANISMS

## EFFECTIVITY: 161925 AND UP

## Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
 Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Station 2 Left Word 1 Data Readout X23XXX

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

Table 1. Station 2 Left Word 1 Data Readout X23XXX (Continued)

Materials Required		
None		
<b>NOTE</b>		
Armament Computer Input/Output Interface Schematic or Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00 or WP011 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Guided Missile Launcher LAU-115C/A		
<input checked="" type="checkbox"/> Guided Missile Launcher LAU-127A/A		
Aircraft Wing Pylon SUU-63( )		
Aircraft Wiring		
Armament Computer CP-1342/AYQ-9(V)		
LAU-115 Jumper Cable W56235		
Left Guided Missile Launcher LAU-7( )		
Procedure	No	Yes
<b>CAUTION</b>		
To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.		
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step.		
2. Shorts to ground.		
3. Shorts between surrounding pins on connectors.		
4. Shorts between shield and conductors.		
5. Shield continuity.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Remove Guided Missile Launcher LAU-7( ) or Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP024 00 or WP040 00).		
(3) Open door 14R (A1-F18AC-LMM-010).		

Table 1. Station 2 Left Word 1 Data Readout X23XXX (Continued)

Procedure	No	Yes
(4) Disconnect 61P-F001B from J2 on armament computer.		
(5) Does continuity exist between:		
LAU-7 disconnect 61P-W213 pin 19 and 61P-F001B pin 100		
LAU-7 disconnect 61P-W213 pin 18 and 61P-F001B pin 101? .....	b	e
LAU-127 disconnect 61P-W254 pin 42 and 61P-F001B pin 100		
LAU-127 disconnect 61P-W254 pin 41 and 61P-F001B pin 101? .....	b	e
b. Do substeps listed below:		
(1) In door 502, disconnect 61P-W095B from 61J-W095B.		
(2) Does continuity exist between:		
61P-W095B <input type="checkbox"/> 1 pin V or <input type="checkbox"/> 2 pin v and 61P-F001B pin 100		
61P-W095B <input type="checkbox"/> 1 pin r or <input type="checkbox"/> 2 pin w and 61P-F001B pin 101? .....	c	f
c. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) Does continuity exist between:		
61P-W095B <input type="checkbox"/> 1 pin V or <input type="checkbox"/> 2 pin v and 61P-W093 pin 55		
61P-W095B <input type="checkbox"/> 1 pin r or <input type="checkbox"/> 2 pin w and 61P-W093 pin 66? .....	d	g
d. Replace LAU-115 Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step j ..	-	-
e. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(3) Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).		
Do step j .....	-	-
f. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step j .....	-	-
g. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-U062 pin 33 and 61P-F001B pin 100		

**Table 1. Station 2 Left Word 1 Data Readout X23XXX (Continued)**

Procedure	No	Yes
52J-U062 pin 44 and 61P-F001B pin 101? .....	h	i
h. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do do step j .....	-	-
i. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step j ...	-	-
j. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) Aircraft Wing Pylon SUU-63( )		
(2) Guided Missile Launcher LAU-7( )		
(3) Guided Missile Launcher LAU-127A/A		
(4) 61P-F001B		
(5) 61P-W093		
(6) 61P-W095B		
(7) Door 14R		
(8) Door 502 .....	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 2. Station 2/8 Left Word 1 Data Readout X4XXXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) or Weapons Station 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP034 00) may be used as an aid when doing this procedure.	

**Table 2. Station 2/8 Left Word 1 Data Readout X4XXXX (Continued)**


Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Guided Missile Launcher LAU-115C/A Guided Missile Launcher LAU-127A/A Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Guided Missile Launcher LAU-7( ) Wing Outboard Pylon Command Signal Encoder-Decoder KY-851/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On failed station disconnect AIM-9 test adapter cable from LAU-7 umbilical connector J2 or LAU-127 umbilical connector J8.		
(3) In door 502, disconnect 61P-W095B from 61J-W095B.		
(4) Does continuity exist between:		
LAU-7 umbilical connector J2 pin 14 and aircraft ground? .....	b	g
LAU-127 umbilical connector J8 pin 14 and aircraft ground? .....	b	h
b. Do substeps listed below:		
(1) Open door 504 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W012D from J4 on encoder-decoder.		

Table 2. Station 2/8 Left Word 1 Data Readout X4XXXX (Continued)

Procedure	No	Yes
(3) Does continuity exist between 61P-W012D pin EE and aircraft ground? .....	c	d
c. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step 1 .....	-	-
d. Do substeps listed below.		
(1) In door 502 (failed station), disconnect 61P-W093 from 61J-W093.		
(2) In door 504, does continuity exist between 61P-W012D pin EE and aircraft ground? .....	e	f
e. Replace LAU-115 Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step 1 ..	-	-
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step 1 ...	-	-
g. Do substeps listed below:		
(1) Remove left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(2) Does continuity exist between 61P-W213 pin 26 and aircraft ground? .....	i	k
h. <input type="checkbox"/> 2 Do substeps listed below:		
(1) Remove left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).		
(2) Does continuity exist between 61P-W254 pin 38 and aircraft ground? .....	j	k
i. Replace Left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step 1 .....	-	-
j. Replace Left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00) and do step 1 .....	-	-
k. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step 1 .....	-	-
l. If disconnected, removed or opened during this procedure, make sure the items listed below are connected, installed or closed:		
(1) Left Guided Missile Launcher LAU-7( )		
(2) Left Guided Missile Launcher LAU-127A/A		
(3) 61P-W012D		
(4) 61P-W093		



**Table 2. Station 2/8 Left Word 1 Data Readout X4XXXX (Continued)**

Procedure	No	Yes
(5) 61P-W095B		
(6) Door 502		
(7) Door 504 .....	-	-
<b>LEGEND</b>  <div> <div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. </div> <div> <div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292. </div>		

**Table 3. Station 2/8 Left Word 1 Data Readout X2XXXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Armanent Computer Input/Output Interface Schematic or Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00 or WP011 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below: <div>             Guided Missile Launcher LAU-115C/A              Aircraft Wing Pylon SUU-63( )              Aircraft Wing              Armament Computer CP-1342/AYQ-9(V)              LAU-115 Jumper Cable W56235           </div>	

**Table 3. Station 2/8 Left Word 1 Data Readout X2XXXX (Continued)**





Left Guided Missile Launcher LAU-7( ) Left Guided Missile Launcher LAU-127A/A Wing Outboard Pylon Command Signal Encoder-Decoder KY-851/AYQ-9(V)								
Procedure	No	Yes						
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) On failed station, remove left Guided Missile Launcher LAU-7( ) or left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP024 00 or WP040 00).</li> <li>(3) Install a jumper wire between 61P-W213 pin 26 (AIM-9 Ident for LAU-7) or 61J-W254 pin 38 (AIM-9 Ident for LAU-127) and aircraft ground.</li> <li>(4) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</li> <li>(6) Does 115vac exist between:               <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">LAU-7 disconnect 61P-W213 pin 9 and 61P-W213 pin 16 (115vac return)? . . . . .</td><td style="width: 10%; text-align: center;">b</td><td style="width: 10%; text-align: center;">n</td></tr> <tr> <td> LAU-127 disconnect 61P-W254 pin 52 and 61P-W213 pin 53 (115vac return)? . . .</td><td style="text-align: center;">b</td><td style="text-align: center;">q</td></tr> </table> </li> </ol> <p>b. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> </ol>			LAU-7 disconnect 61P-W213 pin 9 and 61P-W213 pin 16 (115vac return)? . . . . .	b	n	 LAU-127 disconnect 61P-W254 pin 52 and 61P-W213 pin 53 (115vac return)? . . .	b	q
LAU-7 disconnect 61P-W213 pin 9 and 61P-W213 pin 16 (115vac return)? . . . . .	b	n						
 LAU-127 disconnect 61P-W254 pin 52 and 61P-W213 pin 53 (115vac return)? . . .	b	q						

Table 3. Station 2/8 Left Word 1 Data Readout X2XXXX (Continued)

Procedure	No	Yes
(2) Does continuity exist between:		
LAU-7 disconnect 61P-W213 pin 16 and aircraft ground? .....	c	l
<input type="checkbox"/> 2 LAU-127 disconnect 61P-W254 pin 53 and aircraft ground? .....	c	l
c. Do substeps listed below:		
(1) In door 502, disconnect 61P-W095B from 61J-W095B.		
(2) Does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin DD or <input type="checkbox"/> 2 pin LL and aircraft ground? .....	d	k
d. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) Does continuity exist between:		
<input type="checkbox"/> 1 61P-W093 pin 68 and 61P-W095B pin DD? .....	e	f
<input type="checkbox"/> 2 61P-W095B pin LL and 61P-W093 pin 9 61P-W095B pin LL and 61P-W093 pin 68? .....	e	f
e. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step ad .....	-	-
f. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Is failed station 8? .....	g	j
g. Does continuity exist between:		
52J-U062 pin 87 and aircraft ground		
<input type="checkbox"/> 2 52J-U062 pin 82 and aircraft ground? .....	h	i
h. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ad .....	-	-
i. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step aa ..	-	-
j. Does continuity exist between:		
52J-V068 pin 87 and aircraft ground		
<input type="checkbox"/> 2 52J-V068 pin 82 and aircraft ground? .....	h	i
k. Replace Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step ad .....	-	-

Table 3. Station 2/8 Left Word 1 Data Readout X2XXXX (Continued)

Procedure	No	Yes
<p>l. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W095B from 61J-W095B.</p> <p>(2) Install a jumper wire between 61P-W095B <input type="checkbox"/> pin q or <input type="checkbox"/> pin u and aircraft ground.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(5) Does 115vac exist between 61P-W095B <input type="checkbox"/> pin CC or <input type="checkbox"/> pin FF and aircraft ground? .....</p>	m	k
<p>m. Do table 2, WP037 11 for station 2. Do <input type="checkbox"/> table 1 or <input type="checkbox"/> table 2, WP037 12 for station 8 .....</p>	-	-
<p>n. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504, (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(4) Does continuity exist between:</p> <p>61P-W213 pin 20 and 61P-W012D pin y  61P-W213 pin 1 and 61P-W012D pin P  61P-W213 pin 6 and 61P-W012D pin F? .....</p>	o	t
<p>o. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W095B from 61J-W095B.</p> <p>(2) Does continuity exist between:</p> <p>61P-W095B <input type="checkbox"/> pin H or <input type="checkbox"/> pin E and 61P-W012D pin y  61P-W095B <input type="checkbox"/> pin E or <input type="checkbox"/> pin T and 61P-W012D pin P  61P-W095B <input type="checkbox"/> pin u or <input type="checkbox"/> pin R and 61P-W012D pin F? .....</p>	p	k
<p>p. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between:</p>		

Table 3. Station 2/8 Left Word 1 Data Readout X2XXXX (Continued)

Procedure	No	Yes
61P-W095B <input type="text" value="1"/> pin H or <input type="text" value="2"/> pin E and 61P-W093 pin 59 61P-W095B <input type="text" value="1"/> pin E or <input type="text" value="2"/> pin T and 61P-W093 pin 99 61P-W095B <input type="text" value="1"/> pin u or <input type="text" value="2"/> pin R and 61P-W093 pin 4? .....	e	i
q. Do substeps listed below:  (1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Open door 504 (A1-F18AC-LMM-010).  (3) Disconnect 61P-W012D from J4 on encoder-decoder.  (4) Disconnect 61P-W012C from J3 on encoder-decoder.  (5) Does continuity exist between:  61J-W254 pin 10 and 61P-W012D pin y 61J-W254 pin 4 and 61P-W012D pin P 61J-W254 pin 26 and 61P-W012D pin F 61J-W254 pin 18 and 61P-W012C pin k? .....	r	t
r. Do substeps listed below:  (1) In door 502, disconnect 61P-W095B from 61J-W095B.  (2) Does continuity exist between:  61P-W095B pin E and 61P-W012D pin y 61P-W095B pin T and 61P-W012D pin P 61P-W095B pin R and 61P-W012D pin F 61P-W095B pin U and 61P-W012C pin k? .....	s	k
s. Do substeps listed below:  (1) In door 502, disconnect 61P-W093 from 61J-W093.  (2) In door 502, disconnect 61P-W112 from 61J-W112.  (3) On LAU-115 jumper cable, does continuity exist between:  61P-W095B pin E and 61P-W093 pin 59 61P-W095B pin T and 61P-W093 pin 99 61P-W095B pin R and 61P-W093 pin 4 61P-W095B pin U and 61P-W112 pin 88? .....	e	i
t. Do substeps listed below:  (1) Open door 14R (A1-F18AC-LMM-010).		




Table 3. Station 2/8 Left Word 1 Data Readout X2XXXX (Continued)

Procedure	No	Yes
(2) Disconnect 61P-F001B from J2 on armament computer.		
(3) Is failed station 8? .....	u	y
u. Does continuity exist between:		
LAU-7 disconnect 61P-W213 pin 19 and 61P-F001B pin 100		
LAU-7 disconnect 61P-W213 pin 18 and 61P-F001B pin 101? .....	v	ac
LAU-127 disconnect 61J-W254 pin 42 and 61P-F001B pin 100		
LAU-127 disconnect 61J-W254 pin 41 and 61P-F001B pin 101? .....	v	ac
v. Do substeps listed below:		
(1) In door 502, disconnect 61P-W095B from 61J-W095B.		
(2) Does continuity exist between:		
61P-W095B <input type="checkbox"/> pin V or <input type="checkbox"/> pin v and 61P-F001B pin 100		
61P-W095B <input type="checkbox"/> pin r or <input type="checkbox"/> pin w and 61P-F001B pin 101? .....	w	k
w. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between:		
61P-W095B <input type="checkbox"/> pin V or <input type="checkbox"/> pin v and 61P-W093 pin 55		
61P-W095B <input type="checkbox"/> pin r or <input type="checkbox"/> pin w and 61P-W093 pin 66? .....	e	x
x. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-U062 pin 33 and 61P-F001B pin 100		
52J-U062 pin 44 and 61P-F001B pin 101? .....	h	i
y. Does continuity exist between:		
LAU-7 disconnect 61P-W213 pin 19 and 61P-F001B pin 89		
LAU-7 disconnect 61P-W213 pin 18 and 61P-F001B pin 90? .....	aa	ac
LAU-127 disconnect 61J-W254 pin 42 and 61P-F001B pin 89		
LAU-127 disconnect 61J-W254 pin 41 and 61P-F001B pin 90? .....	z	ac
z. Do substeps listed below:		
(1) In door 502, disconnect 61P-W095B from 61J-W095B.		
(2) Does continuity exist between:		

Table 3. Station 2/8 Left Word 1 Data Readout X2XXXX (Continued)

Procedure	No	Yes
61P-W095B <input type="text" value="1"/> pin V or <input type="text" value="2"/> pin v and 61P-F001B pin 89 61P-W095B <input type="text" value="1"/> pin r or <input type="text" value="2"/> pin w and 61P-F001B pin 90? .....	aa	k
aa. Do substeps listed below:  (1) In door 502, disconnect 61P-W093 from 61J-W093.  (2) On LAU-115 jumper cable, does continuity exist between:  61P-W095B <input type="text" value="1"/> pin V or <input type="text" value="2"/> pin v and 61P-W093 pin 55 61P-W095B <input type="text" value="1"/> pin V or <input type="text" value="2"/> pin v and 61P-W093 pin 55? .....	e	ab
ab. Do substeps listed below:  (1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) Does continuity exist between:  52J-V068 pin 33 and 61P-F001B pin 89 52J-V068 pin 44 and 61P-F001B pin 90? .....	h	i
ac. Malfunction is caused by one of the items listed below:  (1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). (2) Left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). (3) <input type="text" value="2"/> Left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00). (4) Left/Right Wing Outboard Pylon Command Signal Encoder/Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).  Do step ad .....	-	-
ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:  (1) Aircraft Wing Pylon SUU-63( ) (2) Left Guided Missile Launcher LAU-7( ) (3) Left Guided Missile Launcher LAU-127A/A (4) LAU-115 Jumper Cable W56235 (5) 61P-F001B (6) 61P-W012D (7) 61P-W093 (8) 61P-W095B		

**Table 3. Station 2/8 Left Word 1 Data Readout X2XXXX (Continued)**

Procedure	No	Yes
(9) Door 14R		
(10) Door 502		
(11) Door 504		
(12) Remove jumper wire (61P-W213, 61P-W095B, and  61J-W254) .....	-	-
<b>LEGEND</b>		
 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 4. Station 2/8 Left Word 1 Data Readout X1XXXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Guided Missile Launcher LAU-127A/A	
Guided Missile Launcher LAU-115C/A	
Aircraft Wing Pylon SUU-63( )	
LAU-115 Jumper Cable W56235	
Left Guided Missile Launcher LAU-7( )	
Wing Outboard Pylon Command Signal Encoder-Decoder KY-851/AYQ-9(V)	



Table 4. Station 2/8 Left Word 1 Data Readout X1XXXX (Continued)




Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) On failed station, remove Left Guided Missile Launcher LAU-7( ) or  left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP024 00 or WP040 00).</li> <li>(3) Install a jumper wire between LAU-7 connector 61P-W213 pin 26 and aircraft ground or  LAU-127 connector 61J-W254 pin 38 and aircraft ground.</li> <li>(4) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</li> <li>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT control for best display.</li> <li>(7) On RDDI: <ol style="list-style-type: none"> <li>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</li> <li>(b) Press STORES pushbutton switch.</li> <li>(c) Does RDDI display 1 9M for failed station (2 or 8)? .....</li> </ol> </li> </ol>	b	g
b. Do substeps listed below:		

Table 4. Station 2/8 Left Word 1 Data Readout X1XXXX (Continued)

Procedure	No	Yes
<p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In door 502, disconnect 61P-W095B from 61J-W095B.</p> <p>(3) Install a jumper wire between 61P-W095B <input type="checkbox"/> 1 pin q or <input type="checkbox"/> 2 pin u and aircraft ground.</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(5) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT control for best display.</p> <p>(6) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Does RDDI display 1 9M for failed station (2 or 8)? .....</p>		
c. Do substeps listed below:		
<p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove jumper wire from 61P-W095B pin q.</p> <p>(3) Open door 504 (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(5) Does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin q or <input type="checkbox"/> 2 pin u and 61P-W012D pin EE? .....</p>	c	h
d. Do substeps listed below:		
<p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin q or <input type="checkbox"/> 2 pin u and 61P-W093 pin 76? .....</p>	d	i
e. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step j ...	e	f
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step j ...	-	-

Table 4. Station 2/8 Left Word 1 Data Readout X1XXXX (Continued)

Procedure	No	Yes
g. Malfunction is caused by one of the item listed below:		
(1) Left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(2) Left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).		
Do step j .....	-	-
h. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step j .....	-	-
i. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step j .....	-	-
j. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Left Guided Missile Launcher LAU-7( )		
(2) Left Guided Missile Launcher LAU-127A/A		
(3) 61P-W012D		
(4) 61P-W093		
(5) 61P-W095B		
(6) Door 502		
(7) Door 504		
(8) Remove jumper wire (61P-W213 or 61J-W254) .....	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 5. Station 2/8 Left Word 1 Data Readout XX4XXX or XXXX4X

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

**Table 5. Station 2/8 Left Word 1 Data Readout XX4XXX or XXXX4X (Continued)**

<p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p>Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Guided Missile Launcher LAU-115C/A  Aircraft Wing Pylon SUU-63( )  Aircraft Wiring  LAU-115 Jumper Cable W56235  Left Guided Missile Launcher LAU-7( )  Left Guided Missile Launcher LAU-127A/A</p>		
Procedure	No	Yes
<p align="center"><b>WARNING</b></p> <p>To avoid electrical shock or damage to aircraft, be careful when doing Stray voltage tests with electrical power on. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <p align="center"><b>CAUTION</b></p> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ol style="list-style-type: none"> <li>Start testing with multimeter on highest range scale.</li> <li>Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>Test for AC and DC voltages.</li> <li>Record any stray voltage reading as an aid when doing further troubleshooting.</li> </ol> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p>		

Table 5. Station 2/8 Left Word 1 Data Readout XX4XXX or XXXX4X (Continued)

Procedure	No	Yes
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On failed station, remove left Guided Missile Launcher LAU-7( ) or left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP024 00 or WP040 00).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
LAU-7 disconnect 61P-W213 pin 9 (115vac $\phi$ C left AIM-9) and aircraft ground? .....	b	n
<input type="checkbox"/> 2 LAU-127 disconnect 61J-W254 pin 52 (115vac $\phi$ C left AIM-9) and aircraft ground? .....	b	n
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between:		
LAU-7 disconnect 61P-W213 pin 16 and aircraft ground? .....	c	l
LAU-127 disconnect 61J-W254 pin 53 and aircraft ground? .....	c	l
c. Do substeps listed below:		
(1) In door 502, disconnect 61P-W095B from 61J-W095B.		
(2) Does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin DD or <input type="checkbox"/> 2 pin LL and aircraft ground? .....	d	k
d. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W0093.		
(2) On LAU-115 jumper cable, does continuity exist between:		

Table 5. Station 2/8 Left Word 1 Data Readout XX4XXX or XXXX4X (Continued)

Procedure	No	Yes
<input type="checkbox"/> 1 61P-W095B pin DD and 61P-W093 pin 68? .....	e	f
<input type="checkbox"/> 2 61P-W095B pin LL and 61P-W093 pin 9 61P-W095B pin LL and 61P-W093 pin 68? .....	e	f
e. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step p .....	-	-
f. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Is failed station 8? .....	g	j
g. Does continuity exist between wing pylon disconnect:		
52J-U062 pin 87 and aircraft ground? .....	h	i
<input type="checkbox"/> 2 52J-U062 pin 82 and aircraft ground? .....	h	i
h. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step p .....	-	-
i. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step p .....	-	-
j. Does continuity exist between wing pylon disconnect:		
52J-V068 pin 87 and aircraft ground? .....	h	i
<input type="checkbox"/> 2 52J-V068 pin 82 and aircraft ground? .....	h	i
k. Replace Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step p .....	-	-
l. Replace left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step p .....	-	-
m. Replace left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00) and do step p .....	-	-
Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W095B from 61J-W095B.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		

**Table 5. Station 2/8 Left Word 1 Data Readout XX4XXX or XXXX4X (Continued)**

Procedure	No	Yes
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
1 61P-W095B pin CC (115vac $\phi$ A) and aircraft ground?	k	o
2 61P-W095B pin FF (115vac $\phi$ C) and aircraft ground?	k	o
o. For failed station, do table listed below:		
station 2: table 2 (WP037 11)		
1 station 8: table 1 (WP037 12)		
2 station 8: table 2 (WP037 12)		
Do step p	-	-
p. If disconnected, removed or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) Aircraft Wing Pylon SUU-63( )		
(2) Left Guided Missile Launcher LAU-7( )		
(3) 2 Left Guided Missile Launcher LAU-127A/A		
(4) 61P-W093		
(5) 61P-W095B		
(6) Door 502 .....	-	-
<b>LEGEND</b>		
1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 6. Station 2/8 Left Word 1 Data Readout XX2XXX or XXX4XX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

**Table 6. Station 2/8 Left Word 1 Data Readout XX2XXX or XXX4XX (Continued)**

Materials Required		
None		
NOTE		
Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left Guided Missile Launcher LAU-7( ) Left Guided Missile Launcher LAU-127A/A Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"><b>CAUTION</b></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"><b>NOTE</b></div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for a station with a LAU-127( ) installed? .....	b	e
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On failed station, remove left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(3) Open door 504 (A1-F18AC-LMM-010).		





Table 6. Station 2/8 Left Word 1 Data Readout XX2XXX or XXX4XX (Continued)

Procedure	No	Yes
<p>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(5) Does continuity exist between:</p> <p>61P-W213 pin 1 and 61P-W012D pin P  61P-W213 pin 6 and 61P-W012D pin F? .....</p> <p>c. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W095B from 61J-W095B.</p> <p>(2) Does continuity exist between:</p> <p>61P-W095B <input type="checkbox"/> pin E or <input type="checkbox"/> pin T and 61P-W012D pin P  61P-W095B <input type="checkbox"/> pin u or <input type="checkbox"/> pin R and 61P-W012D pin F? .....</p> <p>d. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between:</p> <p>61P-W095B <input type="checkbox"/> pin E or <input type="checkbox"/> pin T and 61P-W093 pin 99  61P-W095B <input type="checkbox"/> pin u or <input type="checkbox"/> pin R and 61P-W093 pin 4? .....</p> <p>e. <input type="checkbox"/> Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) On failed station, remove left Aircraft Guided Missile Launcher LAU-127A/A (A1-F18AE-740-300, WP042 00).</p> <p>(3) Open door 504 (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(5) Disconnect 61P-W012C from J3 on encoder-decoder.</p> <p>(6) Does continuity exist between:</p> <p>61P-W254 pin 4 and 61P-W012D pin P  61P-W254 pin 26 and 61P-W012D pin F  61J-W254 pin 18 and 61P-W012C pin k? .....</p> <p>f. <input type="checkbox"/> Do substeps listed below:</p> <p>(1) Open door 502 (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-W095B from 61J-W095B.</p>	<p>c</p> <p>d</p> <p>h</p> <p>f</p>	<p>j</p> <p>k</p> <p>i</p> <p>j</p>

Table 6. Station 2/8 Left Word 1 Data Readout XX2XXX or XXX4XX (Continued)

Procedure	No	Yes
<p>(3) Does continuity exist between:</p> <p>61P-W095B pin T and 61P-W012D pin P  61P-W095B pin R and 61P-W012D pin F  61P-W095B pin U and 61P-W012C pin k? .....</p>	g	k
<p>g. <input type="checkbox"/> 2 Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) In door 502, disconnect 61P-W112 from 61J-W112.</p> <p>(3) On LAU-115 jumper cable, dose continuity exist between:</p> <p>61P-W095B pin T and 61P-W093 pin 99  61P-W095B pin R and 61P-W093 pin 4  61P-W095B pin U and 61P-W112 pin 88? .....</p>	h	i
<p>h. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step 1 .....</p>	-	-
<p>i. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step 1 .....</p>	-	-
<p>j. Malfunction is caused by one of the items listed below:</p> <p>(1) Left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).</p> <p>(2) <input type="checkbox"/> 2 Left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).</p> <p>(3) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>Do step 1 .....</p>	-	-
<p>k. Replace Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step 1 .....</p>	-	-
<p>l. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:</p> <p>(1) Left Guided Missile Launcher LAU-7( )</p> <p>(2) <input type="checkbox"/> 2 Left Guided Missile Launcher LAU-127A/A</p> <p>(3) 61P-W012C</p> <p>(4) 61P-W012D</p> <p>(5) 61P-W093</p>		

Table 6. Station 2/8 Left Word 1 Data Readout XX2XXX or XXX4XX (Continued)

Procedure	No	Yes
(6) 61P-W095B		
(7) Door 502		
(8) Door 504 .....	-	-
<b>LEGEND</b>		
 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



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ORGANIZATIONAL MAINTENANCE  
TESTING AND TROUBLESHOOTING  
TROUBLESHOOTING - AIM-9 WEAPON SYSTEM END TO END TEST, PART 3  
SUSPENSION AND RELEASE MECHANISMS  
EFFECTIVITY: 161925 AND UP

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### Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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### Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**Table 1. Station 2/8 Left Word 1 Data Readout XX1XXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 1. Station 2/8 Left Word 1 Data Readout XX1XXX (Continued)**

NOTE		
<p>Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Guided Missile Launcher LAU-115C/A  Aircraft Wing Pylon SUU-63( )  LAU-115 Jumper Cable W56235  Left Guided Missile Launcher LAU-7( )  2 Left Guided Missile Launcher LAU-127A/A  Wing outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>WARNING</b></p> <p>To avoid electrical shock or damage to aircraft, be careful when doing Stray voltage tests with electrical power on. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ol style="list-style-type: none"> <li>Start testing with multimeter on highest range scale.</li> <li>Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>Test for AC and DC voltages.</li> <li>Record any stray voltage reading as an aid when doing further troubleshooting.</li> </ol> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below</p>		

Table 1. Station 2/8 Left Word 1 Data Readout XX1XXX (Continued)

Procedure	No	Yes
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.  Bent/recessed pins are a common case of stray voltage.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On failed station, remove left Guided Missile Launcher LAU-7( ) left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP024 00 or WP040 00).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
LAU-7 disconnect 61P-W213 pin 1 and aircraft ground		
LAU-7 disconnect 61P-W213 pin 6 and aircraft ground? .....	b	d
<input type="checkbox"/> LAU-127 disconnect 61J-W254 pin 4 and aircraft ground		
<input type="checkbox"/> LAU-127 disconnect 61J-W254 pin 26 and aircraft ground? .....	c	d
b. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step k .....	-	-
c. Replace Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00) and do step k .....	-	-
d. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W095B from 61J-W095B.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
61P-W095B <input type="checkbox"/> pin E or <input type="checkbox"/> pin T and aircraft ground		
61P-W095B <input type="checkbox"/> pin u or <input type="checkbox"/> pin R and aircraft ground? .....	e	f

Table 1. Station 2/8 Left Word 1 Data Readout XX1XXX (Continued)

Procedure	No	Yes
e. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step k .....	-	-
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
61J-W093 pin 99 and aircraft ground		
61J-W093 pin 4 and aircraft ground? .....	g	h
g. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step k .....	-	-
h. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from J4 on encoder-decoder.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between:		
61P-W012D pin P and aircraft ground		
61P-W012D pin F and aircraft ground? .....	i	j
i. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step k .....	-	-
j. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k ...	-	-
k. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) Left Guided Missile Launcher LAU-7( )		
(2) Left Guided Missile Launcher LAU-127A/A		



**Table 1. Station 2/8 Left Word 1 Data Readout XX1XXX (Continued)**

Procedure	No	Yes
(3) 61P-W012D		
(4) 61P-W093		
(5) 61P-W095B		
(6) Door 502		
(7) Door 504 .....	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 2. Station 2/8 Left Word 1 Data Readout XXX2XX**

<b>Support Equipment Required</b>	
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>
77/BN	Multimeter
<b>Materials Required</b>	
None	
<b>NOTE</b>	
Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Guided Missile Launcher LAU-115C/A	
Aircraft Wing Pylon SUU-63( )	
LAU-115 Jumper Cable W56235	
Left Guided Missile Launcher LAU-7( )	
<div>2</div> Left Guided Missile Launcher LAU-127A/A	
Wing outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

Table 2. Station 2/8 Left Word 1 Data Readout XXX2XX (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On failed station, disconnect AIM-9 test adapter cable from LAU-7 umbilical connector J2 or from LAU-127 umbilical connector J8.		
(3) Open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 on encoder-decoder.		
(5) Is the installed launcher Guided Missile Launcher LAU-127A/A? .....	b	f
b. Does continuity exist between:		
J2 pin 30 and 61P-W012D pin U		
J2 pin 23 and 61P-W012D pin U		
J2 pin 6 and 61P-W012D pin V? .....	c	m
c. Do substeps listed below:		
(1) Remove left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) (failed station).		
(2) Does continuity exist between:		
61P-W213 pin 22 and 61P-W012D pin U		
61P-W213 pin 18 and 61P-W012D pin V? .....	d	k
d. Do substeps listed below:		
(1) In door 502, disconnect 61P-W095B from 61J-W095B.		

Table 2. Station 2/8 Left Word 1 Data Readout XXX2XX (Continued)

Procedure	No	Yes
<p>(2) Does continuity exist between:</p> <p>61P-W095B <input type="text"/> 1 pin C or <input type="text"/> 2 pin c and 61P-W012D pin U  61P-W095B <input type="text"/> 1 pin W or <input type="text"/> 2 pin B and 61P-W012D pin V? .....</p> <p>e. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between:</p> <p>61P-W095B <input type="text"/> 1 pin C or <input type="text"/> 2 pin C and 61P-W093 pin 53  61P-W095B <input type="text"/> 1 pin W or <input type="text"/> 2 pin B and 61P-W093 pin 54? .....</p> <p>f. Do substeps below:</p> <p>(1) Remove left Aircraft Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).</p> <p>(2) Does continuity exist between:</p> <p>61J-W254 pin 15 and 61P-W012D pin U  61J-W254 pin 36 and 61P-W012D pin V  61J-W254 pin 8 and 61P-W012D pin x? .....</p> <p>g. Do substeps listed below:</p> <p>(1) Open door 502 (A1-F18AC-LMM-010).</p> <p>(2) In door 502, disconnect 61P-W095B from 61J-W095B.</p> <p>(3) Does continuity exist between:</p> <p>61P-W095B pin c and 61P-W012D pin U  61P-W095B pin B and 61P-W012D pin V  61P-W095B pin A and 61P-W012D pin x? .....</p> <p>h. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) Does continuity exist between:</p> <p>61P-W095B pin c and 61P-W093 pin 53  61P-W095B pin B and 61P-W093 pin 54  61P-W095B pin A and 61P-W093 pin 69? .....</p> <p>i. Replace LAU-115 Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step q .....</p> <p>j. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step q .....</p>	<p>e</p> <p>i</p> <p>g</p> <p>h</p> <p>i</p> <p>-</p> <p>-</p>	<p>l</p> <p>j</p> <p>p</p> <p>l</p> <p>j</p> <p>-</p> <p>-</p>

Table 2. Station 2/8 Left Word 1 Data Readout XXX2XX (Continued)

Procedure	No	Yes
k. Replace left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step q .....	-	-
l. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step q .....	-	-
m. Do substeps listed below:		
(1) Remove Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP025 00).		
(2) Does continuity exist between 61P-W213 pin 25 and 61P-W012D pin x? .....	n	p
n. Do substeps listed below:		
(1) In door 502, disconnect 61P-W095B from 61J-W095B.		
(2) Does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin U or <input type="checkbox"/> 2 pin A and 61P-W012D pin x? .....	o	l
o. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin U or <input type="checkbox"/> 2 pin A and 61P-W093 pin 69? .....	i	j
p. Malfunction is caused by one of the items listed below:		
(1) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(2) Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).		
(3) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
(4) Do step q .....	-	-
q. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Left Guided Missile Launcher LAU-7( )		
(2) Left Guided Missile Launcher LAU-127A/A		
(3) 61P-W012D		
(4) 61P-W093		
(5) 61P-W095B		

Table 2. Station 2/8 Left Word 1 Data Readout XXX2XX (Continued)

Procedure	No	Yes
(6) Door 502		
(7) Door 504 .....	-	-
<b>LEGEND</b>  <div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 3. Station 2/8 Left Word 1 Data Readout XXX1XX

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Guided Missile Launcher LAU-115C/A LAU-115 Jumper Cable W56235 Left Guided Missile Launcher LAU-7( ) <div>2</div> Left Guided Missile Launcher LAU-127A/A Left/Right Wing outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

Table 3. Station 2/8 Left Word 1 Data Readout XXX1XX (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) On failed station, disconnect AIM-9 test adapter cable from LAU-7 umbilical connector J2 or from LAU-127 umbilical connector J8.</li> <li>(3) Open door 504 (A1-F18AC-LMM-010).</li> <li>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</li> <li>(5) <input type="checkbox"/> 2 Is the installed launcher Guided Missile Launcher LAU-127A/A? .....</li> </ol>	b	d
<p>b. Does continuity exist between:</p> <p>J2 pin 34 and 61P-W012D pin s J2 pin 5 and 61P-W012D pin BB</p> <p><input type="checkbox"/> 1 J2 pin 6 and 61P-W012D pin r <input type="checkbox"/> 1 J2 pin 6 and 61P-W012D pin q <input type="checkbox"/> 2 J2 pins 6, 9 and 21 and 61P-W012D pin r <input type="checkbox"/> 2 J2 pins 6, 9 and 21 and 61P-W012D pin q? .....</p>	c	i
<p>c. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Remove left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) (failed station).</li> <li>(2) Does continuity exist between: <p>61P-W213 pin 23 and 61P-W012D pin s 61P-W213 pin 21 and 61P-W012D pin BB 61P-W213 pin 18 and 61P-W012D pin r 61P-W213 pin 18 and 61P-W012D pin q? .....</p> </li> </ol>	f	j

Table 3. Station 2/8 Left Word 1 Data Readout XXX1XX (Continued)

Procedure	No	Yes
d. Does continuity exist between:  J8 pin 34 and 61P-W012D pin s J8 pin 5 and 61P-W012D pin BB J8 pin 21 and 61P-W012D pin r J8 pin 21 and 61P-W012D pin q? .....	e	i
e. Do substeps below:  (1) Remove left Aircraft Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP042 00).  (2) Does continuity exist between:  61J-W254 pin 44 and 61P-W012D pin s 61J-W254 pin 16 and 61P-W012D pin BB 61J-W254 pin 43 and 61P-W012D pin r 61J-W254 pin 14 and 61P-W012D pin q? .....	f	k
f. Do substeps listed below:  (1) In door 502, disconnect 61P-W093 from 61J-W095B.  (2) On LAU-115 jumper cable, does continuity exist between:  61P-W095B <input type="checkbox"/> pin s or <input type="checkbox"/> pin BB and 61P-W012D pin s 61P-W095B <input type="checkbox"/> pin Z or <input type="checkbox"/> pin b and 61P-W012D pin BB 61P-W095B <input type="checkbox"/> pin t or <input type="checkbox"/> pin n and 61P-W012D pin r 61P-W095B <input type="checkbox"/> pin g or <input type="checkbox"/> pin a and 61P-W012D pin q? .....	g	l
g. Do substeps listed below:  (1) In door 502, disconnect 61P-W093 from 61J-W093.  (2) On LAU-115 jumper cable, does continuity exist between:  61P-W095B <input type="checkbox"/> pin s or <input type="checkbox"/> pin BB and 61P-W093 pin 60 61P-W095B <input type="checkbox"/> pin Z or <input type="checkbox"/> pin b and 61P-W093 pin 62 61P-W095B <input type="checkbox"/> pin t or <input type="checkbox"/> pin n and 61P-W093 pin 61 61P-W095B <input type="checkbox"/> pin G or <input type="checkbox"/> pin a and 61P-W093 pin 63? .....	h	m
h. Replace LAU-115 Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step n .....	-	-
i. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step n .....	-	-

**Table 3. Station 2/8 Left Word 1 Data Readout XXX1XX (Continued)**

Procedure	No	Yes
j. Replace left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step n .....	-	-
k. Replace left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP024 00) and do step n .....	-	-
l. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step n .....	-	-
m. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step n ..	-	-
n. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) Left Guided Missile Launcher LAU-7( )		
(2) Left Guided Missile Launcher LAU-127A/A		
(3) 61P-W012D		
(4) 61P-W093		
(5) 61P-W095B		
(6) Door 502		
(7) Door 504 .....	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 4. Station 2/8 Left Word 1 Data Readout XXXX2X**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	



**Table 4. Station 2/8 Left Word 1 Data Readout XXXX2X (Continued)****NOTE**

Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.

Component locations are shown in WP007 00.

Malfunction is caused by one of the items listed below:

Guided Missile Launcher LAU-115C/A

Aircraft Wing Pylon SUU-63( )

Aircraft Wiring

LAU-115 Jumper Cable W56235

Left Guided Missile Launcher LAU-7( )

☐ 2 Left Guided Missile Launcher LAU-127A/A

**WARNING**

To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests with electrical power on. 115vac and 28vdc exists on pins other than the pins used in this procedure.

**CAUTION**

To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.

**NOTE**

The question used in logic tree “Does continuity exist” means to test for the items listed below:

1. Pin to pin test per procedural step.
2. Shorts to ground.
3. Shorts between surrounding pins on connectors.
4. Shorts between shield and conductors.
5. Shield continuity.

Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) On failed station, remove left Guided Missile Launcher LAU-7( ) or left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP024 00 or WP040 00).</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p>		

Table 4. Station 2/8 Left Word 1 Data Readout XXXX2X (Continued)

Procedure	No	Yes
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does 28vdc exist between:		
LAU-7 disconnect 61P-W213 pin 15 and aircraft ground? .....	b	l
LAU-127 disconnect 61J-W254 pin 30 and aircraft ground? .....	b	l
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, (failed station), disconnect 61P-W095B from 61J-W095B.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does 28vdc exist between 61P-W095B <input type="checkbox"/> 1 pin A or <input type="checkbox"/> 2 pin HH and aircraft ground? .....	c	k
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W093 from 61J-W093.		
(3) On LAU-115 jumper cable, does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin A or <input type="checkbox"/> 2 pin HH pin A and 61P-W093 pin 8? .....	d	e
d. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step u .....	-	-
e. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(4) Is failed station 8? .....	f	i
f. Does 28vdc exist between wing pylon disconnect 52J-U062 pin 75 and aircraft ground? ...	g	h
g. Isolate defective aircraft wiring between 52J-U062 pin 75 and 52J-U062 pin 102 (A1-F18AC( )-WDM-000) and do step u .....	-	-

Table 4. Station 2/8 Left Word 1 Data Readout XXXX2X (Continued)

Procedure	No	Yes
h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step u? .....	-	-
i. Does 28vdc exist between wing pylon disconnect 52J-V068 pin 75 and aircraft ground? ....	j	h
j. Isolate defective aircraft wiring between 52J-V068 pin 75 and 52J-V068 pin 102 (A1-F18A( )-WDM-000) and do step u .....	-	-
k. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step u .....	-	-
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between:		
LAU-7 disconnect 61P-W213 pin 18 and aircraft ground? .....	m	s
2 LAU-127A/A disconnect 61J-W254 pin 40 and aircraft ground? .....	m	t
m. Do substeps listed below:		
(1) In door 502, disconnect 61P-W095B from 61J-W095B.		
(2) Does continuity exist between 61P-W095B pin B and aircraft ground? .....	n	k
n. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between 61P-W095B pin B and 61P-W093 pin 16? .....	d	o
o. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Is failed station 8? .....	p	r
p. Does continuity exist between wing pylon disconnect 52J-U062 pin 88 and aircraft ground? .....	q	h
q. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step u .....	-	-
r. Does continuity exist between wing pylon disconnect 52J-V068 pin 88 and aircraft ground? .....	q	h
s. Replace left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step u .....	-	-
t. Replace left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00) and do step u. ....	-	-

Table 4. Station 2/8 Left Word 1 Data Readout XXXX2X (Continued)

Procedure	No	Yes
u. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:  (1) Aircraft Wing Pylon SUU-63( )  (2) Left Guided Missile Launcher LAU-7( )  (3) <input type="checkbox"/> 2 Left Guided Missile Launcher LAU-127A/A  (4) 61P-W093  (5) 61P-W095B  (6) Door 502 .....		
<b>LEGEND</b>  <input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B. <input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 5. Station 8 Left Word 1 Data Readout X23XXX

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Armament Computer Input/Output Interface Schematic and Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP011 00 and WP047 00) may be used as an aid when doing this procedure.  Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:  Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) Aircraft Wing Armament Computer CP-1342/AYQ-9(V) LAU-115 Jumper Cable W56235 Left Guided Missile Launcher LAU-7( ) <input type="checkbox"/> 2 Left Guided Missile Launcher LAU-127A/A	

Table 5. Station 8 Left Word 1 Data Readout X23XXX (Continued)











Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Remove left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) or  left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).</li> <li>(3) Open door 14R (A1-F18AC-LMM-010).</li> <li>(4) Disconnect 61P-F001B from J2 on armament computer.</li> <li>(5) Does continuity exist between: <ul style="list-style-type: none"> <li>LAU-7 disconnect 61P-W213 pin 19 and 61P-F001B pin 89</li> <li>LAU-7 disconnect 61P-W213 pin 18 and 61P-F001B pin 90? .....</li> <li> LAU-127 disconnect 61J-W254 pin 42 and 61P-F001B pin 89</li> <li> LAU-127 disconnect 61J-W254 pin 41 and 61P-F001B pin 90? .....</li> </ul> </li> </ol>	<p>b</p> <p>b</p>	<p>e</p> <p>e</p>
<p>b. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) In door 502, disconnect 61P-W095B from 61J-W095B.</li> <li>(2) Does continuity exist between: <ul style="list-style-type: none"> <li>61P-W095B  pin V or  pin v and 61P-F001B pin 89</li> <li>61P-W095B  pin r or  pin w and 61P-F001B pin 90? .....</li> </ul> </li> </ol>	<p>c</p>	<p>f</p>
<p>c. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) In door 502, disconnect 61P-W093 from 61J-W093.</li> </ol>		

Table 5. Station 8 Left Word 1 Data Readout X23XXX (Continued)

Procedure	No	Yes
(2) Does continuity exist between:  61P-W095B <input type="checkbox"/> pin V or <input type="checkbox"/> pin v and 61P-W093 pin 55 61P-W095B <input type="checkbox"/> pin r or <input type="checkbox"/> pin w and 61P-W093 pin 66? .....	d	g
d. Replace LAU-115 Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step j .....	-	-
e. Malfunction is caused by one of the items listed below:  (1) Left Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). (2) Left Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00). (3) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). (4) Do step j .....	-	-
f. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step j .....	-	-
g. Do substeps listed below:  (1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). (2) Does continuity exist between:  52J-V068 pin 33 and 61P-F001B pin 89 52J-V068 pin 44 and 61P-F001B pin 90? .....	h	i
h. Isolate defective aircraft wiring, (A1-F18AC-WDM-000) and do step j .....	-	-
i. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18-AC-740-300, WP034 00) and do step j .....	-	-
j. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.  (1) Aircraft Wing Pylon SUU-63( ) (2) Left Guided Missile Launcher LAU-7( ) (3) <input type="checkbox"/> Left Guided Missile Launcher LAU-127A/A (4) 61P-F001B (5) 61P-W093 (6) 61P-W095B		

Table 5. Station 8 Left Word 1 Data Readout X23XXX (Continued)

Procedure	No	Yes
(7) Door 14R		
(8) Door 502 .....	-	-
<b>LEGEND</b>		
 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		





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ORGANIZATIONAL MAINTENANCE  
TESTING AND TROUBLESHOOTING  
TROUBLESHOOTING - AIM-9 WEAPON SYSTEM END TO END TEST, PART 4  
SUSPENSION AND RELEASE MECHANISMS  
EFFECTIVITY: 161925 AND UP

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### Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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### Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**Table 1. Station 2 Right Word 2 Data Readout X23XXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

Table 1. Station 2 Right Word 2 Data Readout X23XXX (Continued)

Materials Required		
None		
<b>NOTE</b>		
Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) LAU-115 Jumper Cable W56235 Right Guided Missile Launcher LAU-7( ) <input type="checkbox"/> 2 Right Guided Missile Launcher LAU-127A/A		
Procedure	No	Yes
<b>CAUTION</b>		
To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.		
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W095B from 61J-W095B.		
(3) Open door 14R (A1-F18AC-LMM-000).		
(4) In door 14R, disconnect 61P-F001B from J2 on armament computer.		

Table 1. Station 2 Right Word 2 Data Readout X23XXX (Continued)

Procedure	No	Yes
<p>(5) Does continuity exist between:</p> <p>61P-W095B <input type="text" value="1"/> pin V or <input type="text" value="2"/> pin v and 61P-F001B pin 100  61P-W095B <input type="text" value="1"/> pin r or <input type="text" value="2"/> pin w and 61P-F001B pin 101? .....</p>	b	g
<p>b. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between:</p> <p>61P-W095B <input type="text" value="1"/> pin V or <input type="text" value="2"/> pin v and 61P-W093 pin 55  61P-W095B <input type="text" value="1"/> pin r or <input type="text" value="2"/> pin w and 61P-W093 pin 66? .....</p>	c	d
<p>c. Replace LAU-115 Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step h .....</p>	-	-
<p>d. Do substeps listed below:</p> <p>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Does continuity exist between:</p> <p>52J-U062 pin 33 and 61P-F001B pin 100  52J-U062 pin 44 and 61P-F001B pin 101? .....</p>	e	f
<p>e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h .....</p>	-	-
<p>f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step h .....</p>	-	-
<p>g. Malfunction is caused by one of the items listed below:</p> <p>(1) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC- 740-300, WP025 00).</p> <p>(2) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP034 00).</p> <p>(3) Right Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).</p> <p>(4) Right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).</p> <p>Do step h .....</p>	-	-
<p>h. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:</p> <p>(1) Aircraft Wing Pylon SUU-63( )</p> <p>(2) 61P-F001B</p> <p>(3) 61P-W093</p>		

Table 1. Station 2 Right Word 2 Data Readout X23XXX (Continued)



Procedure	No	Yes
(4) 61P-W095B		
(5) Door 14R		
(6) Door 502 .....	-	-
<b>LEGEND</b>   On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.  On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 2. Station 2/8 Right Word 2 Data Readout X4XXXX

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Guided Missile Launcher LAU-115C/A Aircraft Wing Pylon SUU-63( ) LAU-115 Jumper Cable W56235 Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) Right Guided Missile Launcher LAU-7( ) <div><div>2</div></div> Right Guided Missile Launcher LAU-127A/A		
Procedure	No	Yes
<div><div>CAUTION</div></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

Table 2. Station 2/8 Right Word 2 Data Readout X4XXXX (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On failed station disconnect AIM-9 test adapter cable from LAU-7 umbilical connector J2 or from LAU-127 umbilical connector J8.		
(3) In door 502, disconnect 61P-W095B from 61J-W095B.		
(4) Is troubleshooting being done with a LAU-127A/A installed? .....	b	c
b. Does continuity exist between LAU-7 umbilical connector J2 pin 14 and aircraft ground? .....	d	j
c. Does continuity exist between LAU-127 umbilical connector J8 pin 14 and aircraft ground? .....	o	k
d. In door 502, does continuity exist between 61J-W095B <span style="border: 1px solid black; padding: 0 2px;">1</span> pin EE or <span style="border: 1px solid black; padding: 0 2px;">2</span> pin x and aircraft ground? .....	e	n
e. Do substeps listed below:		
(1) Open door 504 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W012D from J4 on encoder-decoder.		
(3) Does continuity exist between 61P-W012D pin c and aircraft ground? .....	f	g
f. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step p .....	-	-
g. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) In door 504, does continuity exist between 61P-W012D pin c and aircraft ground? .....	h	i
h. Replace LAU-115 Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step p .....	-	-

Table 2. Station 2/8 Right Word 2 Data Readout X4XXXX (Continued)

Procedure	No	Yes
i. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step p .....	-	-
j. Do substeps listed below:		
(1) Remove right Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(2) Does continuity exist between 61P-W212 pin 26 and aircraft ground? .....	m	n
k. Do substeps listed below:		
(1) Remove right Aircraft Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).		
(2) Does continuity exist between 61J-W253 pin 38 and aircraft ground? .....	l	n
l. Replace right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00) and do step p .....	-	-
m. Replace Right Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step p .....	-	-
n. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step p .....	-	-
o. In door 502, does continuity exist between 61J-W095 pin x and aircraft ground? .....	e	n
p. If disconnected, removed or opened during this procedure, make sure the items listed below are connected, installed or closed:		
(1) Right Guided Missile Launcher LAU-7( )		
(2) <input type="checkbox"/> Right Guided Missile Launcher LAU-127A/A		
(3) 61P-W012D		
(4) 61P-W093		
(5) 61P-W095B		
(6) Door 502		
(7) Door 504 .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 3. Station 2/8 Right Word 2 Data Readout X2XXXX**


<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Armament Computer Input/Output Interface Schematic and Weapon Station 2, 8            AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP011 00 and WP047 00) may            be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p>		
<p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 20px;">             Aircraft Wing Pylon SUU-63( )              Aircraft Wiring              Armament Computer CP-1342/AYQ-9(V)              Guided Missile Launcher LAU-115C/A              LAU-115 Jumper Cable W56235              Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)              Right Guided Missile Launcher LAU-7( )  <input type="checkbox"/> 2 Right Guided Missile Launcher LAU-127A/A           </p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center; margin-bottom: 10px;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center; margin: 10px 0;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		

Table 3. Station 2/8 Right Word 2 Data Readout X2XXXX (Continued)

Procedure	No	Yes
<p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) On failed station, remove right Guided Missile Launcher LAU-7( ) or right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP024 00 or WP040 00).</p> <p>(3) Install a jumper wire between 61P-W212 pin 26 (LAU-7 AIM-9 Ident) and aircraft ground or between 61J-W253 pin 38 (LAU-127 AIM-9 Ident) and aircraft ground.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) Does 115vac exist between:</p> <p>LAU-7 disconnect 61P-W212 pin 9 and aircraft ground? ..... b e</p> <p>LAU-127 disconnect 61P-W253 pin 52 and aircraft ground? ..... b f</p>		
<p>b. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In door 502, disconnect 61P-W095B from 61J-W095B.</p> <p>(3) Install a jumper wire between 61P-W095B <input type="checkbox"/> pin EE or <input type="checkbox"/> pin x and aircraft ground.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) Does 115vac exist between 61P-W095B <input type="checkbox"/> pin cc or <input type="checkbox"/> pin FF and aircraft ground? ..... c d</p>		
<p>c. On failed station, do table listed below:</p> <p>Station 2: table 2 (WP037 11)</p> <p>Station 8: table 1 (WP037 12)</p> <p><input type="checkbox"/> Station 8: table 1A (WP037 12)</p> <p>Do step ae ..... - -</p>		
<p>d. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step ae ..... - -</p>		
<p>e. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Does continuity exist between 61P-W212 pin 16 and aircraft ground? ..... g o</p>		



Table 3. Station 2/8 Right Word 2 Data Readout X2XXXX (Continued)

Procedure	No	Yes
f. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 61J-W253 pin 53 and aircraft ground? .....	g	o
g. Do substeps listed below:		
(1) In door 502, disconnect 61P-W095B from 61J-W095B.		
(2) Does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin DD or <input type="checkbox"/> 2 pin LL and aircraft ground? .....	h	d
h. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable does continuity exist between:		
61P-W095B pin DD and 61P-W093 pin 68 .....	i	j
<input type="checkbox"/> 2 61P-W095B pin LL and 61P-W093 pin 9		
<input type="checkbox"/> 2 61P-W095B pin LL and 61P-W093 pin 68? .....	i	j
i. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step ae .....	-	-
j. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Is failed station 8? .....	k	n
k. Does continuity exist between wing pylon disconnect:		
52J-U062 pin 87 and aircraft ground? .....	l	m
<input type="checkbox"/> 2 52J-U062 pin 82 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ae .....	-	-
m. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step ae .....	-	-
n. Does continuity exist between wing pylon disconnect:		
52J-V068 pin 87 and aircraft ground? .....	l	m
<input type="checkbox"/> 2 52J-V068 pin 82 and aircraft ground? .....	l	m
o. Do substeps listed below:		
(1) In door 502, disconnect 61P-W095B from 61J-W095B.		

Table 3. Station 2/8 Right Word 2 Data Readout X2XXXX (Continued)

Procedure	No	Yes
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) In door 14R, disconnect 61P-F001B from J2 on armament computer.		
(4) Is failed station 8? .....	p	s
p. Does continuity exist between:		
61P-W095B <input type="checkbox"/> pin V or <input type="checkbox"/> pin v and 61P-F001B pin 100 61P-W095B <input type="checkbox"/> pin r or <input type="checkbox"/> pin w and 61P-F001B pin 101? .....	q	v
q. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between:		
61P-W095B <input type="checkbox"/> pin V or <input type="checkbox"/> pin v and 61P-W093 pin 55 61P-W095B <input type="checkbox"/> pin r or <input type="checkbox"/> pin w and 61P-W093 pin 66? .....	i	r
r. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-U062 pin 33 and 61P-F001B pin 100 52J-U062 pin 44 and 61P-F001B pin 101? .....	l	m
s. Does continuity exist between:		
61P-W095B <input type="checkbox"/> pin V or <input type="checkbox"/> pin v and 61P-F001B pin 89 61P-W095B <input type="checkbox"/> pin r or <input type="checkbox"/> pin w and 61P-F001B pin 90? .....	t	v
t. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between:		
61P-W095B <input type="checkbox"/> pin V or <input type="checkbox"/> pin v and 61P-W093 pin 55 61P-W095B <input type="checkbox"/> pin r or <input type="checkbox"/> pin w and 61P-W093 pin 66? .....	i	u
u. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-V068 pin 33 and 61P-F001B pin 89 52J-V068 pin 44 and 61P-F001B pin 90? .....	l	m

Table 3. Station 2/8 Right Word 2 Data Readout X2XXXX (Continued)

Procedure	No	Yes
<p>v. Do substeps listed below:</p> <p>(1) Open door 504 (A1-F18AC-LMM-010).</p> <p>(2) In door 504, disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(3) In door 502, connect 61P-W095B to 61J-W095B.</p> <p>(4) Does continuity exist between:</p> <p>LAU-7 disconnect 61P-W212 pin 20 and 61P-W012D pin y? . . . . .</p> <p>LAU-127 disconnect 61P-W253 pin 10 and 61P-W012D pin y? . . . . .</p>	<p>w</p> <p>w</p>	<p>y</p> <p>aa</p>
<p>w. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W095B from 61J-W095B.</p> <p>(2) Does continuity exist between 61P-W095B <input type="checkbox"/> pin H or <input type="checkbox"/> pin E and 61P-W012D pin y? . . . . .</p>	<p>x</p>	<p>d</p>
<p>x. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between 61P-W095B <input type="checkbox"/> pin H or <input type="checkbox"/> pin E and 61P-W093 pin 59? . . . . .</p>	<p>i</p>	<p>m</p>
<p>y. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W095B from 61J-W095B.</p> <p>(2) Does continuity exist between:</p> <p>61P-W095B <input type="checkbox"/> pin u or <input type="checkbox"/> pin R and 61P-W012D pin F 61P-W095B <input type="checkbox"/> pin E or <input type="checkbox"/> pin T and 61P-W012D pin P? . . . . .</p>	<p>z</p>	<p>ad</p>
<p>z. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between:</p> <p>61P-W095B <input type="checkbox"/> pin u or <input type="checkbox"/> pin R and 61P-W093 pin 4 61P-W095B <input type="checkbox"/> pin E or <input type="checkbox"/> pin T and 61P-W093 pin 99? . . . . .</p>	<p>i</p>	<p>m</p>
<p>aa. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W095B from 61J-W095B.</p> <p>(2) In door 504, disconnect 61P-W012C from J3 on encoded-decoder.</p>		

Table 3. Station 2/8 Right Word 2 Data Readout X2XXXX (Continued)

Procedure	No	Yes
<p>(3) Does continuity exist between:</p> <p>61P-W095B pin R and 61P-W012D pin F  61P-W095B pin T and 61P-W012D pin P  61P-W095B pin U and 61P-W012C pin k? .....</p> <p>ab. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) Does continuity exist between:</p> <p>61P-W095B pin R and 61P-W093 pin 4  61P-W095B pin T and 61P-W093 pin 99? .....</p> <p>ac. Do substeps listed below:</p> <p>(1) In door 504, disconnect 61P-W112 from 61J-W112.</p> <p>(2) Does continuity exist between 61P-W095B pin U and 61P-W112 pin 88? .....</p> <p>ad. Malfunction is caused by one of the items listed below:</p> <p>(1) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).</p> <p>(2) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).</p> <p>(3) Right Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).</p> <p>(4) Right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).</p> <p>(5) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)  (A1-F18AC-740-300, WP009 00).</p> <p>Do step aa .....</p> <p>ae. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:</p> <p>(1) Aircraft Wing Pylon SUU-63( )</p> <p>(2) Right Guided Missile Launcher LAU-7( )</p> <p>(3) <input checked="" type="checkbox"/> 2 Right Guided Missile Launcher LAU-127A/A</p> <p>(4) 61P-F001B</p> <p>(5) 61P-W012C</p> <p>(6) 61P-W012D</p>	<p>ab</p> <p>i</p> <p>i</p> <p>-</p>	<p>ad</p> <p>ac</p> <p>m</p> <p>-</p>

**Table 3. Station 2/8 Right Word 2 Data Readout X2XXXX (Continued)**

Procedure	No	Yes
(7) 61P-W093		
(8) 61P-W095B		
(9) Door 14R		
(10) Door 502		
(11) Door 504		
(12) Remove Jumper Wire (61P-W095B, 61P-W212 and <input type="checkbox"/> 2 61J-W253) .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 4. Station 2/8 Right Word 2 Data Readout X1XXXX**

<b>Support Equipment Required</b>	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
<b>Materials Required</b>	
None	
<b>NOTE</b>	
Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( )	
Guided Missile Launcher LAU-115C/A	
LAU-115 Jumper Cable W56235	
Right Guided Missile Launcher LAU-7( )	
<input type="checkbox"/> 2 Right Guided Missile Launcher LAU-127A/A	
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9( )	

Table 4. Station 2/8 Right Word 2 Data Readout X1XXXX (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) On failed station, remove Right Guided Missile Launcher LAU-7( ) or right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP024 00 or WP040 00).</li> <li>(3) Install a jumper wire between LAU-7 disconnect 61P-W212 pin 26 and aircraft ground or between LAU-127 disconnect 61J-W253 pin 38 and aircraft ground.</li> <li>(4) Turn on electrical power (A1-F18AC-LMM-000).</li> <li>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</li> <li>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT control for best display.</li> <li>(7) On RDDI: <ol style="list-style-type: none"> <li>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</li> <li>(b) Press STORES pushbutton switch.</li> <li>(c) Does RDDI display 1 9M for failed station (2 or 8)? .....</li> </ol> </li> </ol>	b	g
<p>b. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> </ol>		

Table 4. Station 2/8 Right Word 2 Data Readout X1XXXX (Continued)

Procedure	No	Yes
<p>(2) In door 502, disconnect 61P-W095B from 61J-W095B.</p> <p>(3) Install a jumper wire between 61P-W095B <input type="checkbox"/> 1 pin EE or <input type="checkbox"/> 2 pin x and aircraft ground.</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(5) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT controls for best display.</p> <p>(6) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Does RDDI display 1 9L/9M for failed station (2 or 8)? .....</p>		
c. Do substeps listed below:		
<p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Remove jumper wire from 61P-W095B <input type="checkbox"/> 1 pin EE or <input type="checkbox"/> 2 pin x.</p> <p>(3) Open door 504 (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(5) Does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin EE or <input type="checkbox"/> 2 pin x and 61P-W012D pin c? .....</p>	c	h
d. Do substeps listed below:		
<p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin EE or <input type="checkbox"/> 2 pin x and 61P-W093 pin 74? .....</p>	d	i
e. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step j .....	e	f
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step j ...	-	-
g. Malfunction is caused by one of the following:		
(1) Right Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		

Table 4. Station 2/8 Right Word 2 Data Readout X1XXXX (Continued)

Procedure	No	Yes
(2) Right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00). Do step j .....	-	-
h. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step j .....	-	-
i. Replace wing outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step j .....	-	-
j. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Right Guided Missile Launcher LAU-7( )		
(2) <input type="checkbox"/> Right Guided Missile Launcher LAU-127A/A		
(3) 61P-W012D		
(4) 61P-W093		
(5) 61P-W095B		
(6) Door 502		
(7) Door 504		
(8) Remove Jumper Wire (61P-W212, 61P-W095B and <input type="checkbox"/> 61J-W253) .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 5. Station 2/8 Right Word 2 Data Readout XX4XXX or XXXX4X  
Support Equipment Required

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	



**Table 5. Station 2/8 Right Word 2 Data Readout XX4XXX or XXXX4X  
Support Equipment Required (Continued)**

NOTE		
<p>Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Aircraft Wiring</p> <p>Guided Missile Launcher LAU-115C/A</p> <p>LAU-115 Jumper Cable W56235</p> <p>Right Guided Missile Launcher LAU-7( )</p> <p><input checked="" type="checkbox"/> Right Guided Missile Launcher LAU-127A/A</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>WARNING</b></p> <p>To avoid electrical shock or damage to aircraft, be careful when doing Stray voltage tests with electrical power on. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to multimeter during stray voltage testing, observe the list below</p> <ol style="list-style-type: none"> <li>Start testing with multimeter on highest range scale.</li> <li>Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>Test for AC and DC voltages.</li> <li>Record any stray voltage reading as an aid when doing further troubleshooting.</li> </ol> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 5. Station 2/8 Right Word 2 Data Readout XX4XXX or XXXX4X  
Support Equipment Required (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>Bent/recessed pins in Connectors are a common cause of stray voltage</p>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On failed station, remove right Guided Missile Launcher LAU-7( ) or right Guided Missile Launcher LAU-127A/A (A1-F18AC-470-300, WP024 00 or WP040 00).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
LAU-7 disconnect 61P-W212 pin 9 (115vac $\phi$ C right AIM-9) and aircraft ground? . . . . .	b	o
LAU-127 disconnect 61J-W253 pin 52 (115vac $\phi$ C right AIM-9) and aircraft ground? . . .	c	o
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 61P-W212 pin 16 and aircraft ground? . . . . .	d	m
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Does continuity exist between 61J-W253 pin 53 and aircraft ground? . . . . .	d	n
d. Do substeps listed below:		
(1) In door 502, disconnect 61P-W095B from 61J-W095B.		

**Table 5. Station 2/8 Right Word 2 Data Readout XX4XXX or XXXX4X  
Support Equipment Required (Continued)**

Procedure	No	Yes
(2) Does continuity exist between 61P-W095B <input type="checkbox"/> pin DD or <input type="checkbox"/> pin LL and aircraft ground? .....	e	l
e. Do substeps listed below.		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between:		
61P-W095B pin DD and 61P-W093 pin 68? .....	f	g
<input type="checkbox"/> 61P-W095B pin LL and 61P-W093 pin 68 61P-W095B pin LL and 61P-W043 pin 9? .....	f	g
f. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step q .....	-	-
g. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Is failed station 8? .....	h	k
h. Does continuity exist between wing pylon disconnect:		
52J-U062 pin 87 and aircraft ground? .....	i	j
<input type="checkbox"/> 52J-U062 pin 82 and aircraft ground? .....	i	j
i. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step q .....	-	-
j. Replace Aircraft wing pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step q ...	-	-
k. Does continuity exist between wing pylon disconnect:		
52J-V068 pin 87 and aircraft ground? .....	i	j
<input type="checkbox"/> 52J-V062 pin 82 and aircraft ground? .....	i	j
l. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step q .....	-	-
m. Replace right Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step q .....	-	-
n. Replace right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00) and do step q .....	-	-

**Table 5. Station 2/8 Right Word 2 Data Readout XX4XXX or XXXX4X  
Support Equipment Required (Continued)**

Procedure	No	Yes
<p>o. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In door 502, disconnect 61P-W095B from 61J-W095B.</p> <p>(3) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(5) Does stray voltage exist between 61P-W095B <input type="checkbox"/> pin CC or <input type="checkbox"/> pin FF (115vac <math>\phi</math>C) and aircraft ground? .....</p> <p>p. Do table 2, WP037 11 for station 2. Do or <input type="checkbox"/> table 1 or <input type="checkbox"/> table 2 WP037 12 for station 8 and do step q .....</p> <p>q. If disconnected, removed or opened during this procedure, make sure the items listed below are connected, installed, or closed:</p> <p>(1) Aircraft Wing Pylon SUU-63( )</p> <p>(2) Right Guided Missile Launcher LAU-7( )</p> <p>(3) <input type="checkbox"/> Right Guided Missile Launcher LAU-127A/A</p> <p>(4) 61P-W093</p> <p>(5) 61P-W095B</p> <p>(6) Door 502 .....</p>	<p>1</p> <p>-</p> <p>-</p> <p>-</p>	<p>p</p> <p>-</p> <p>-</p> <p>-</p>
<p><b>LEGEND</b></p> <p><input type="checkbox"/> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

**Table 6. Station 2/8 Right Word 2 Data Readout XX2XXX or XXX4XX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter




**Table 6. Station 2/8 Right Word 2 Data Readout XX2XXX or XXX4XX (Continued)**

<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )            Guided Missile Launcher LAU-115C/A            LAU-115 Jumper Cable W56235            Left/Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)            Right Guided Missile Launcher LAU-7( )  <input type="checkbox"/> 2 Right Guided Missile Launcher LAU-127A/A</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="border: 2px solid black; padding: 5px; display: inline-block; margin-bottom: 20px;"><b>CAUTION</b></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done on a station with a LAU-127A/A installed? .....	b	d
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502 (failed station), disconnect 61P-W095B from 61J-W095B.		
(3) Open door 504 (A1-F18AC-LMM-010).		
(4) Disconnect 61P-W012D from J4 encoder-decoder.		

Table 6. Station 2/8 Right Word 2 Data Readout XX2XXX or XXX4XX (Continued)

Procedure	No	Yes
<p>(5) Does continuity exist between:</p> <p>61P-W095B <input type="text" value="1"/> pin E or <input type="text" value="2"/> pin T and 61P-W012D pin P  61P-W095B <input type="text" value="1"/> pin u or <input type="text" value="2"/> pin R and 61P-W012D pin F? .....</p> <p>c. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between:</p> <p>61P-W095B <input type="text" value="1"/> pin E or <input type="text" value="2"/> pin T and 61P-W093 pin 99  61P-W095B <input type="text" value="1"/> pin u or <input type="text" value="2"/> pin R and 61P-W093 pin 4? .....</p> <p>d. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) On failed station, in door 502, disconnect 61P-W095B from 61J-W095B.</p> <p>(3) Open door 504 (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(5) Disconnect 61P-W012C from J3 on encoder-decoder.</p> <p>(6) Does continuity exist between:</p> <p>61P-W095B pin T and 61P-W012D pin P  61P-W095B pin R and 61P-W012D pin F  61P-W095B pin U and 61P-W012C pin k? .....</p> <p>e. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W03.</p> <p>(2) In door 502, disconnect 61P-W112 from 61J-W112.</p> <p>(3) On LAU-115 jumper cable, does continuity exist between:</p> <p>61P-W095B pin T and 61P-W093 pin 99  61P-W095B pin R and 61P-W093 pin 4  61P-W095B pin U and 61P-W112 pin 88? .....</p> <p>f. Replace LAU-115 Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step i .....</p> <p>g. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP025 00) and do step i .....</p> <p>h. Malfunction is caused by one of the items listed below:</p>	<p>c</p> <p>f</p> <p>e</p> <p>f</p> <p>-</p> <p>-</p>	<p>h</p> <p>g</p> <p>h</p> <p>g</p> <p>-</p> <p>-</p>

**Table 6. Station 2/8 Right Word 2 Data Readout XX2XXX or XXX4XX (Continued)**

Procedure	No	Yes
(1) Right Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(2)  Right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).		
(3) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).		
(4) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
Do step i .....	-	-
i. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-W012C		
(2) 61P-W012D		
(3) 61P-W093		
(4) 61P-W095B		
(5) Door 502		
(6) Door 504 .....	-	-
<b>LEGEND</b>		
 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		





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ORGANIZATIONAL MAINTENANCE  
TESTING AND TROUBLESHOOTING  
TROUBLESHOOTING - AIM-9 WEAPON SYSTEM END TO END TEST, PART 5  
SUSPENSION AND RELEASE MECHANISMS  
EFFECTIVITY: 161925 AND UP

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### Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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### Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**Table 1. Station 2/8 Right Word 2 Data Readout XX1XXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Material Required	
None	

Table 1. Station 2/8 Right Word 2 Data Readout XX1XXX (Continued)


NOTE		
<p>Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wing Pylon SUU-63( )</p> <p>Guided Missile Launcher LAU-115C/A</p> <p>LAU115 Jumper Cable W56235</p> <p>Right Guided Missile Launcher LAU-7( )</p> <p> Right Guided Missile Launcher LAU-127A/A</p> <p>Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>WARNING</b></p> <p>To avoid electrical shock or damage to aircraft, be careful when doing Stray voltage tests with electrical power on. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ol style="list-style-type: none"> <li>Start testing with multimeter on highest range scale.</li> <li>Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>Test for AC and DC voltages.</li> <li>Record any stray voltage reading as an aid when doing further troubleshooting.</li> </ol> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>Pin to pin test per procedural step.</li> <li>Shorts to ground.</li> <li>Shorts between surrounding pins on connectors.</li> <li>Shorts between shield and conductors.</li> <li>Shield continuity.</li> </ol> <p>Bent/recessed pins are a common case of stray voltage.</p>		

Table 1. Station 2/8 Right Word 2 Data Readout XX1XXX (Continued)

Procedure	No	Yes
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On failed station, remove right Guided Missile Launcher LAU-7( ) or <input type="checkbox"/> right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP024 00 or WP040 00).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does stray voltage exist between:		
LAU-7 disconnect 61P-W212 pin 1 and aircraft ground		
LAU-7 disconnect 61P-W212 pin 6 and aircraft ground? .....	b	d
<input type="checkbox"/> LAU-127 disconnect 61J-W253 pin 18 and aircraft ground		
<input type="checkbox"/> LAU-127 disconnect 61J-W253 pin 4 and aircraft ground		
<input type="checkbox"/> LAU-127 disconnect 61J-W253 pin 26 and aircraft ground? .....	c	d
b. Replace right Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step k .....	-	-
c. Replace right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00) and do step k .....	-	-
d. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W095B from 61J-W095B.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) <input type="checkbox"/> With LAU-7, does stray voltage exist between:		
61P-W095B pin E and aircraft ground		
61P-W095B pin u and aircraft ground? .....	e	f
(6) <input type="checkbox"/> With LAU-7, does stray voltage exist between:		
61P-W095B pin T and aircraft ground		
61P-W095B pin R and aircraft ground? .....	e	f

Table 1. Station 2/8 Right Word 2 Data Readout XX1XXX (Continued)

Procedure	No	Yes
<p>(7) <input type="checkbox"/> 2 With LAU-127, does stray voltage exist between:</p> <p>61P-W095B pin T and aircraft ground  61P-W095B pin R and aircraft ground  61P-W095B pin U and aircraft ground? .....</p> <p>e. Replace Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step k .....</p> <p>f. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 504 (A1-F18AC-LMM-010).</p> <p>(3) In door 504, disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(4) If testing LAU-127, in door 504, disconnect 61P-W012C from J3 on encoder-decoder.</p> <p>(5) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(7) <input type="checkbox"/> 1 With LAU-7, does stray voltage exist between:</p> <p>61P-W095B pin E and aircraft ground  61P-W095B pin u and aircraft ground? .....</p> <p>(8) <input type="checkbox"/> 2 With LAU-7, does stray voltage exist between:</p> <p>61P-W095B pin T and aircraft ground  61P-W095B pin R and aircraft ground? .....</p> <p>(9) <input type="checkbox"/> 2 With LAU-127, does stray voltage exist between:</p> <p>61P-W095B pin T and aircraft ground  61P-W095B pin R and aircraft ground  61P-W095B pin U and aircraft ground? .....</p> <p>g. Replace Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00) and do step k .....</p> <p>h. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(3) <input type="checkbox"/> 2 If testing LAU-127, in door 502 disconnect 61P-W112 from 61J-W112.</p>	<p>e</p> <p>-</p> <p>g</p> <p>g</p> <p>g</p> <p>-</p> <p>-</p>	<p>f</p> <p>-</p> <p>h</p> <p>h</p> <p>h</p> <p>-</p> <p>-</p>

Table 1. Station 2/8 Right Word 2 Data Readout XX1XXX (Continued)

Procedure	No	Yes
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) With LAU-7, does stray voltage exist between:		
61P-W012D pin P and aircraft ground		
61P-W012D pin F and aircraft ground? .....	i	j
(7) <input type="checkbox"/> 2 With LAU-127, does stray voltage exist between:		
61P-W012D pin P and aircraft ground		
61P-W012D pin F and aircraft ground		
61P-W012D pin k and aircraft ground? .....	i	j
i. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step k .....	-	-
j. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step k ...	-	-
k. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) Guided Missile Launcher LAU-7( )		
(2) <input type="checkbox"/> 2 Guided Missile Launcher LAU-127A/A		
(3) 61P-W012C		
(4) 61P-W012D		
(5) 61P-W093		
(6) 61P-W095B		
(7) 61P-W112		
(8) Door 502		
(9) Door 504 .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 2. Station 2/8 Right Word 2 Data Readout XXX2XX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Material Required</b>		
None		
<b>NOTE</b>		
Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Guided Missile Launcher LAU-115C/A <input type="checkbox"/> 2 Guided Missile Launcher LAU-127A/A Guided Missile Launcher LAU-7( ) LAU-115 Jumper Cable W56235 Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
		
To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.		
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502 (failed station), disconnect 61P-W095B from 61J-W095B.		

Table 2. Station 2/8 Right Word 2 Data Readout XXX2XX (Continued)

Procedure	No	Yes
<p>(3) Open door 504 (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(5) Does continuity exist between:</p> <p>61P-W095B <input type="checkbox"/> pin C or <input type="checkbox"/> pin c and 61P-W012D pin U  61P-W095B <input type="checkbox"/> pin W or <input type="checkbox"/> pin B and 61P-W012D pin V  61P-W095B <input type="checkbox"/> pin U or <input type="checkbox"/> pin A and 61P-W012D pin x .....</p>	b	e
<p>b. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between:</p> <p>61P-W095B <input type="checkbox"/> pin C or <input type="checkbox"/> pin c and 61P-W012D pin 53  61P-W095B <input type="checkbox"/> pin W or <input type="checkbox"/> pin B and 61P-W012D pin 54  61P-W095B <input type="checkbox"/> pin U or <input type="checkbox"/> pin A and 61P-W012D pin 69 .....</p>	c	d
<p>c. Replace LAU-115 Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step f .....</p>	-	-
<p>d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f .....</p>	-	-
<p>e. Malfunction is caused by one of the items listed below:</p> <p>(1) Right Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).</p> <p>(2) <input type="checkbox"/> Right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).</p> <p>(3) Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).</p> <p>(4) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).</p> <p>(5) Do step f .....</p>	-	-
<p>f. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 61P-W012D</p> <p>(2) 61P-W093</p> <p>(3) 61P-W095B</p>		

Table 2. Station 2/8 Right Word 2 Data Readout XXX2XX (Continued)



Procedure	No	Yes
(4) Door 502		
(5) Door 504 .....		
<b>LEGEND</b>   On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.   On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 3. Station 2/8 Right Word 2 Data Readout XXX1XX

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Material Required		
None		
NOTE		
Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Guided Missile Launcher LAU-115C/A <div><div>2</div></div> Guided Missile Launcher LAU-127A/A Guided Missile Launcher LAU-7( ) LAU-115 Jumper Cable W56235 Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div>NOTE</div>		



Table 3. Station 2/8 Right Word 2 Data Readout XXX1XX (Continued)

Procedure	No	Yes
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <p>1. Pin to pin test per procedural step.</p> <p>2. Shorts to ground.</p> <p>3. Shorts between surrounding pins on connectors.</p> <p>4. Shorts between shield and conductors.</p> <p>5. Shield continuity.</p> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) In door 502 (failed station), disconnect 61P-W095B from 61J-W095B.</p> <p>(3) Open door 504 (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-W012D from J4 on encoder-decoder.</p> <p>(5) Does continuity exist between:</p> <p>61P-W095B <input type="checkbox"/> 1 pin s or <input type="checkbox"/> 2 pin BB and 61P-W012D pin s</p> <p>61P-W095B <input type="checkbox"/> 1 pin t or <input type="checkbox"/> 2 pin n and 61P-W012D pin r</p> <p>61P-W095B <input type="checkbox"/> 1 pin Z or <input type="checkbox"/> 2 pin b and 61P-W012D pin BB</p> <p>61P-W095B <input type="checkbox"/> 1 pin G or <input type="checkbox"/> 2 pin a and 61P-W012D pin q? .....</p> <p>b. Do substeps listed below:</p> <p>(1) In door 502, disconnect 61P-W093 from 61J-W093.</p> <p>(2) On LAU-115 jumper cable, does continuity exist between:</p> <p>61P-W095B <input type="checkbox"/> 1 pin s or <input type="checkbox"/> 2 pin BB and 61P-W093 pin 60</p> <p>61P-W095B <input type="checkbox"/> 1 pin t or <input type="checkbox"/> 2 pin n and 61P-W093 pin 61</p> <p>61P-W095B <input type="checkbox"/> 1 pin Z or <input type="checkbox"/> 2 pin b and 61P-W093 pin 62</p> <p>61P-W095B <input type="checkbox"/> 1 pin G or <input type="checkbox"/> 2 pin a and 61P-W093 pin 63? .....</p> <p>c. Replace LAU-115 Jumper Cable W56235 (A1-F18AC-740-300, WP025 00) and do step f .....</p> <p>d. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step f .....</p> <p>e. Malfunction is caused by one of the items listed below:</p> <p>(1) Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00).</p> <p>(2) Right Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).</p>	<p>b</p> <p>c</p> <p>-</p> <p>-</p>	<p>e</p> <p>d</p> <p>-</p> <p>-</p>

**Table 3. Station 2/8 Right Word 2 Data Readout XXX1XX (Continued)**

Procedure	No	Yes
(3) Right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00).		
(4) Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00).		
(5) Do step f .....	-	-
f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-W012D		
(2) 61P-W093		
(3) 61P-W095B		
(4) Door 502		
(5) Door 504 .....	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 4. Station 2/8 Right Word 1 Data Readout XXXX2X**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Material Required	
None	
NOTE	
Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	

**Table 4. Station 2/8 Right Word 1 Data Readout XXXX2X (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Guided Missile Launcher LAU-115C/A <input checked="" type="checkbox"/> Guided Missile Launcher LAU-127A/A Guided Missile Launcher LAU-7( ) LAU-115 Jumper Cable W56235		
Procedure	No	Yes
<div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: 150px;"><b>WARNING</b></div> <p>To avoid electrical shock or damage to aircraft, be careful when doing Stray voltage tests with electrical power on. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: 150px;"><b>CAUTION</b></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center; margin: 10px auto; width: 150px;"><b>NOTE</b></div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield Continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On failed station, remove right Guided Missile Launcher LAU-7( ) or <input checked="" type="checkbox"/> right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP024 00 or WP040 00).		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) On LAU-7( ), does 28vdc exist between 61P-W212 pin 15 and aircraft ground? . . . . .	b	l

Table 4. Station 2/8 Right Word 1 Data Readout XXXX2X (Continued)

Procedure	No	Yes
(6) On LAU-127A/A, does continuity exist between 61J-W253 pin 30 and aircraft ground? .....	b	l
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502, disconnect 61P-W095B from 61J-W095B.		
(3) Turn on electrical power (A1-F18AC-LMM-000).		
(4) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(5) Does 28vdc exist between 61P-W095B <input type="checkbox"/> 1 pin A or <input type="checkbox"/> 2 pin HH and aircraft ground? .....	c	k
c. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) In door 502 (failed station), disconnect 61P-W093 from 61J-W093.		
(3) On LAU-115 jumper cable, does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin A or <input type="checkbox"/> 2 pin HH and 61P-W093 pin 8? .....	d	e
d. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00) and do step t .....	-	-
e. Do substeps listed below.		
(1) Remove Aircraft Wing Pylon SUU-63( ) (failed station) (A1-F18AC-740-300, WP034 00)		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(4) Is failed station 8? .....	f	i
f. Does 28vdc exist between wing pylon disconnect 52J-U062 pin 75 and aircraft ground? ...	g	h
g. Isolate defective aircraft wiring between 52J-U062 pin 75 and 52J-U062 pin 102 (A1-F18A( )-WDM-000) and do step t .....	-	-
h. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step t .....	-	-
i. Does 28vdc exist between wing pylon disconnect 52J-V068 pin 75 and aircraft ground? .....	j	h

Table 4. Station 2/8 Right Word 1 Data Readout XXXX2X (Continued)

Procedure	No	Yes
j. Isolate defective aircraft wiring between 52J-V068 pin 75 and 52J-V068 pin 102 (A1-F18A( )-WDM-000) and do step t .....	-	-
k. Replace Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00) and do step t .....	-	-
l. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) On LAU-7( ), does continuity exist between 61P-W212 pin 18 and aircraft ground? ..	m	s
(3) <input type="checkbox"/> 2 On LAU-127A/A, does continuity exist between 61J-W253 pin 40 and aircraft ground? .....	m	s
m. Do substeps listed below:		
(1) In door 502, disconnect 61P-W095B from 61J-W095B.		
(2) Does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin B or <input type="checkbox"/> 2 pin M and aircraft ground? .....	n	k
n. Do substeps listed below:		
(1) In door 502, disconnect 61P-W093 from 61J-W093.		
(2) On LAU-115 jumper cable, does continuity exist between 61P-W095B <input type="checkbox"/> 1 pin B or <input type="checkbox"/> 2 pin M and 61P-W093 pin 16? .....	d	o
o. Do substeps listed below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (failed station) (A1-F18AC-740-300, WP034 00).		
(2) Is failed station 8? .....	p	r
p. Does continuity exist between wing pylon disconnect 52J-U062 pin 88 and aircraft ground? .....	q	h
q. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step t .....	-	-
r. Does continuity exist between wing pylon disconnect 52J-V068 pin 88 and aircraft ground? .....	q	h
s. On failed station, replace Guided Missile Launcher LAU-7( ) or <input type="checkbox"/> 2 Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP024 00 or WP040 00) and do step t .....	-	-
t. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) Aircraft Wing Pylon SUU-63( )		


**Table 4. Station 2/8 Right Word 1 Data Readout XXXX2X (Continued)**

Procedure	No	Yes
(2) Guided Missile Launcher LAU-7( )		
(3) <input type="checkbox"/> 2 Guided Missile Launcher LAU-127A/A		
(4) 61P-W093		
(5) 61P-W095B		
(6) Door 502 .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		




**Table 5. Station 8 Right Word 2 Data Readout X23XXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Material Required	
None	
NOTE	
Armament Computer Input/Output Interface Schematic and Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00 and WP011 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
Armament Computer CP-1342/AYQ-9(V)	
Guided Missile Launcher LAU-115C/A	
<input type="checkbox"/> 2 Guided Missile Launcher LAU-127A/A	
Guided Missile Launcher LAU-7( )	
LAU-115 Jumper Cable W56235	

Table 5. Station 8 Right Word 2 Data Readout X23XXX (Continued)

Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) In door 502 (failed station), disconnect 61P-W095B from 61J-W095B.</li> <li>(3) Open door 14R (A1-F18AC-LMM-010).</li> <li>(4) Disconnect 61P-F001B from J2 on Armament Computer CP-1342/AYQ-9(V).</li> <li>(5) Does continuity exist between: <div style="margin-left: 40px;"> 61P-W095B <input type="checkbox"/> pin V or <input type="checkbox"/> pin v and 61P-F001B pin 89  61P-W095B <input type="checkbox"/> pin r or <input type="checkbox"/> pin w and 61P-F001B pin 90? ..... </div> </li> </ol>	b	g
<p>b. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) In door 502, disconnect 61P-W093 from 61J-W093.</li> <li>(2) On LAU-115 jumper cable, does continuity exist between: <div style="margin-left: 40px;"> 61P-W095B <input type="checkbox"/> pin V or <input type="checkbox"/> pin v and 61P-F093 pin 55  61P-W095B <input type="checkbox"/> pin r or <input type="checkbox"/> pin w and 61P-F093 pin 66? ..... </div> </li> </ol>	c	d
<p>c. Replace LAU-115 Jumper Cable W56235 (A1-F18AC-740-510, WP025 00) and do step h .....</p>	-	-
<p>d. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</li> </ol>		

**Table 5. Station 8 Right Word 2 Data Readout X23XXX (Continued)**

Procedure	No	Yes
(2) Does continuity exist between:  52J-V068 pin 44 and 61P-F001B pin 90 52J-V068 pin 33 and 61P-F001B pin 89? .....	e	f
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step h .....	-	-
f. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) and do step h .....	-	-
g. Malfunction is caused by one of the items listed below:  (1) Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). (2) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP034 00). (3) Right Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). (4)  Right Guided Missile Launcher LAU-127A/A (A1-F18AC-740-300, WP040 00). (5) Do step h .....	-	-
h. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:  (1) Aircraft Wing Pylon SUU-63( ) (2) 61P-F001B (3) 61P-W093 (4) 61P-W095B (5) Door 14R (6) Door 502 .....	-	-
<b>LEGEND</b>		
 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



ORGANIZATIONAL MAINTENANCE  
TESTING AND TROUBLESHOOTING  
TROUBLESHOOTING - AIM-9 WEAPON SYSTEM END TO END TEST, PART 6  
SUSPENSION AND RELEASE MECHANISMS  
EFFECTIVITY: 161925 AND UP

### Reference Material

Line Maintenance Procedures ..... A1-F18AC-LMM-000  
Line Maintenance Access Doors ..... A1-F18AC-LMM-010

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### Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**Table 1. Station 9 Word 1 Data Readout X23XXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

Table 1. Station 9 Word 1 Data Readout X23XXX (Continued)

Materials Required		
None		
<b>NOTE</b>		
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Guided Missile Launcher LAU-7( )		
Procedure	No	Yes
<b>CAUTION</b>		
To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale		
<b>NOTE</b>		
The question used in logic tree “Does continuity exist” means to test for the items listed below:		
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 144R (A1-F18AC-LMM-010).		
<b>CAUTION</b>		
When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.		

Table 1. Station 9 Word 1 Data Readout X23XXX (Continued)

Procedure	No	Yes
(3) Disconnect 61P-V029A from J1 on LAU-7.		
(4) Open door 14R (A1-F18AC-LMM-010).		
(5) Disconnect 61P-F001B from J2 on Armament Computer CP-1342/AYQ-9(V).		
(6) Does continuity exist between:		
61P-V029A pin 18 and 61P-F001B pin 79		
61P-V029A pin 19 and 61P-F001B pin 78? .....	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step d .....	-	-
c. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
Do step d .....	-	-
d. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed:		
(1) 61P-F001B		
(2) 61P-V029A		
(3) Door 14R		
(4) Door 144R .....	-	-

Table 2. Station 9 Word 1 Data Readout X4XXXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring		
Guided Missile Launcher LAU-7( )		
Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;">NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		

Table 2. Station 9 Word 1 Data Readout X4XXXX (Continued)


Procedure	No	Yes
a. Do substeps listed below: (1) Turn off electrical power (A1-F18AC-LMM-000). (2) Disconnect AIM-9 test adapter cable from LAU-7 umbilical connector, J2. (3) Open door 159R (A1-F18AC-LMM-010). (4) Disconnect 61P-V019B from J2 on encoder-decoder. (5) Does continuity exist between LAU-7 umbilical connector J2 pin 14 and aircraft ground? .....	b	c
b. Replace Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00) and do step f .....	-	-
c. Do substeps listed below: (1) Open door 144R (A1-F18AC-LMM-000).		
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(2) Disconnect 61P-V029A from J1 on LAU-7.		
(3) Does continuity exist between 61P-V029A pin 26 and aircraft ground? .....	d	e
d. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step f .....	-	-
e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
f. If disconnected, removed or opened during this procedure make sure items listed below are connected, installed or closed: (1) 61P-V019B (2) 61P-V029A (3) Door 144R (4) Door 159R .....	-	-

Table 3. Station 9 Word 1 Data Readout X2XXXX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Guided Missile Launcher LAU-7( ) Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;">NOTE</p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"><li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li><li>(2) Disconnect AIM-9 test adapter cable from LAU-7 umbilical connector J2.</li></ol>		

Table 3. Station 9 Word 1 Data Readout X2XXXX (Continued)


Procedure	No	Yes
(3) Install a jumper wire between LAU-7 umbilical connector J2 pin 14 and aircraft ground.  (4) Turn on electrical power (A1-F18AC-LMM-000).  (5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.  (6) Does 115vac exist between LAU-7 umbilical connector J2 pin 1 and aircraft ground? .....	b	e
b. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).  (2) Open door 144R (A1-F18AC-LMM-010).		
<div style="text-align: center;">  </div>		
When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.		
(3) Disconnect 61P-V029A from J1 on LAU-7.  (4) Install a jumper wire between 61P-V029A pin 26 and aircraft ground.  (5) Turn on electrical power (A1-F18AC-LMM-000).  (6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.  (7) Does 115vac exist between 61P-V029A pin 9 and aircraft ground? .....	c	d
c. Do <input type="checkbox"/> 1 table 2, or <input type="checkbox"/> 2 Table 2A WP037 12 .....	-	-
d. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step k .....	-	-
e. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		

Table 3. Station 9 Word 1 Data Readout X2XXXX



Procedure	No	Yes
<p>(2) Does continuity exist between LAU-7 umbilical connector J2 pin 6 and aircraft ground? .....</p> <p>f. Do substeps listed below:</p> <p>(1) Open door 144R (A1-F18AC-LMM-010).</p> <div style="text-align: center;">  </div> <p>When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.</p> <p>(2) Disconnect 61P-V029A from J1 on LAU-7.</p> <p>(3) Does continuity exist between 61P-V029A pin 16 and aircraft ground? .....</p> <p>g. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step k .....</p> <p>h. Do substeps listed below:</p> <p>(1) Open door 144R (A1-F18AC-LMM-000).</p> <div style="text-align: center;">  </div> <p>When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.</p> <p>(2) Disconnect 61P-V029A from J1 on LAU-7.</p> <p>(3) Open door 14R (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-F001B from J2 on armament computer.</p> <p>(5) Does continuity exist between:</p> <p style="padding-left: 40px;">61P-V029A pin 19 and 61P-F001B pin 78</p> <p style="padding-left: 40px;">61P-V029A pin 18 and 61P-F001B pin 79? .....</p> <p>i. Do substeps listed below:</p> <p>(1) Open door 159R (A1-F18AC-LMM-000).</p> <p>(2) Disconnect 61P-V019B from J2 on encoder-decoder.</p> <p>(3) Does continuity exist between:</p>	<p>f</p> <p>g</p> <p>-</p> <p>-</p> <p>g</p>	<p>h</p> <p>d</p> <p>-</p> <p>-</p> <p>i</p>



Table 3. Station 9 Word 1 Data Readout X2XXXX (Continued)



Procedure	No	Yes
61P-V029A pin 1 and 61P-V019B pin 8 61P-V029A pin 6 and 61P-V019B pin 9 61P-V029A pin 20 and 61P-V019B pin 15? .....	g	j
j. Malfunction is caused by one of the items listed below:		
(1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(3) Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
Do step k.....	-	-
k. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-F001B		
(2) 61P-V019B		
(3) 61P-V029A		
(4) Door 14R		
(5) Door 144R		
(6) Door 159R		
(7) Remove jumper wire (61P-V029A pin 26, J2 pin 14 on LAU-7 ) .....	-	-
<b>LEGEND</b>		
 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 4. Station 9 Word 1 Data Readout X1XXXX

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter

**Table 4. Station 9 Word 1 Data Readout X1XXXX (Continued)**


<b>Materials Required</b>		
None		
<b>NOTE</b>		
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Guided Missile Launcher LAU-7( ) Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Disconnect AIM-9 test adapter cable from LAU-7 umbilical connector J2.		
(3) Open door 159R (A1-F18AC-LMM-010).		
(4) Disconnect 61P-V019B from J2 on encoder-decoder.		
(5) Does continuity exist between LAU-7 umbilical connector J2 pin 14 and 61P-V019B pin 3? .....	b	e

Table 4. Station 9 Word 1 Data Readout X1XXXX (Continued)


Procedure	No	Yes
b. Do substeps listed below: (1) Open door 144R (A1-F18C-LMM-010).  <div style="text-align: center;">  </div> When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.  (2) Disconnect 61P-V029A from J1 on LAU-7. (3) Does continuity exist between 61P-V029A pin 26 and 61P-V019B pin 3? .....		
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step g .....	-	-
d. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step g .....	-	-
e. Do substeps listed below: (1) Open door 14R (A1-F18AC-LMM-010). (2) Disconnect 61P-F001B from J2 on armament computer. (3) Does continuity exist between 61P-V019B pin 10 and 61P-F001B pin 95? .....	c	f
f. Malfunction is caused by one of the items listed below: (1) Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). (2) Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).  Do step g .....	-	-
g. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed: (1) 61P-F001B (2) 61P-V019B (3) 61P-V029A (4) Door 14R (5) Door 144R		

Table 4. Station 9 Word 1 Data Readout X1XXXX (Continued)

Procedure	No	Yes
(6) Door 159R .....	-	-

Table 5. Station 9 Word 1 Data Readout XX4XXX or XXXX4X

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring		
Guided Missile Launcher LAU-7( )		
Procedure	No	Yes
<div>WARNING</div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests, 115vac and 28vdc exists on pins other than the pins used in this procedure.</p>		

Table 5. Station 9 Word 1 Data Readout XX4XXX or XXXX4X (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ol style="list-style-type: none"> <li>Start testing with multimeter on highest range scale.</li> <li>Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>Test for AC and DC voltages.</li> <li>Record any stray voltage reading as an aid when doing further troubleshooting</li> </ol> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>Pin to pin test per procedural step.</li> <li>Shorts to ground.</li> <li>Shorts between surrounding pins on connectors.</li> <li>Shorts between shield and conductors.</li> <li>Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>Turn off electrical power (A1-F18AC-LMM-000).</li> <li>Open door 144R (A1-F18AC-LMM-010).</li> </ol>		
<p style="text-align: center;"><b>CAUTION</b></p> <p>When disconnecting 61P-V029A, a straight pull on the connector is required to prevent damage to connector pins.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
<ol style="list-style-type: none"> <li>Disconnect 61P-V029A from J1 on LAU-7.</li> </ol>		

**Table 5. Station 9 Word 1 Data Readout XX4XXX or XXXX4X (Continued)**

Procedure	No	Yes
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does stray voltage exist between 61P-V029A pin 9 and aircraft ground? .....	b	e
b. Does stray voltage exist between 61P-V029A pin 16 and aircraft ground? .....	c	d
c. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step f .....	-	-
d. Isolate defective aircraft wiring between 61P-V029A pin 16 and aircraft ground (A1-F18A( )-WDM-000) and do step f .....	-	-
e. Do <input type="checkbox"/> 1 table 2 or <input type="checkbox"/> 2 table 2A WP037 12 .....	-	-
f. If disconnected, removed or opened during this procedure, make sure items listed below are connected, installed or closed:		
(1) 61P-V029A		
(2) Door 144R .....	-	-

LEGEND	
<input type="checkbox"/> 1	On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.
<input type="checkbox"/> 2	On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.

**Table 6. Station 9 Word 1 Data Readout XX2XXX or XXX4XX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	

**Table 6. Station 9 Word 1 Data Readout XX2XXX or XXX4XX (Continued)**

<p>Malfunction is caused by one of the items listed below:</p> <p>Aircraft Wiring          Guided Missile Launcher LAU-7( )          Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)</p>		
Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Open door 144R (A1-F18AC-LMM-010).</p> <p style="text-align: center;"><b>CAUTION</b></p> <p>When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.</p> <p>(3) Disconnect 61P-V029A from J1 on LAU-7.</p> <p>(4) Open door 159R (A1-F18AC-LMM-010).</p> <p>(5) Disconnect 61P-V019B from J2 on encoder-decoder.</p> <p>(6) Does continuity exist between:</p> <p>61P-V029A pin 1 and 61P-V019B pin 8          61P-V029A pin 6 and 61P-V019B pin 9? .....</p>		
	b	c

**Table 6. Station 9 Word 1 Data Readout XX2XXX or XXX4XX (Continued)**

Procedure	No	Yes
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step d .....	-	-
c. Malfunction is caused by one of the items listed below:		
(1) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
(2) Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
Do step d .....	-	-
d. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-V019B		
(2) 61P-V029A		
(3) Door 144R		
(4) Door 159R .....	-	-

**Table 7. Station 9 Word 1 Data Readout XX1XXX**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	



**Table 7. Station 9 Word 1 Data Readout XX1XXX (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wiring Guided Missile Launcher LAU-7( ) Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: 150px;"><b>WARNING</b></div> <p>To avoid electrical shock or damage to aircraft, be careful when doing stray voltage tests. 115vac and 28vdc exists on pins other than the pins used in this procedure.</p> <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: 150px;"><b>CAUTION</b></div> <p>To prevent damage to multimeter during stray voltage testing, observe the list below:</p> <ol style="list-style-type: none"> <li>a. Start testing with multimeter on highest range scale.</li> <li>b. Reduce scale one range at a time to the lowest scale required for a reading.</li> <li>c. Test for AC and DC voltages.</li> <li>d. Record any stray voltage reading as an aid when doing further trouble-shooting.</li> </ol> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center; margin: 10px auto; width: 100px;"><b>NOTE</b></div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 144R (A1-F18AC-LMM-010).		

Table 7. Station 9 Word 1 Data Readout XX1XXX (Continued)


Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>When disconnecting 61P-V029A, a straight pull on the connector is required to prevent damage to connector pins.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p> <p>(3) Disconnect 61P-V029A from J1 on LAU-7.</p> <p>(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p>(6) Does stray voltage exist between:</p> <p style="padding-left: 40px;">61P-V029A pin 1 and aircraft ground</p> <p style="padding-left: 40px;">61P-V029A pin 6 and aircraft ground? .....</p> <p>b. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step f .....</p> <p>c. Do substeps listed below:</p> <p style="padding-left: 40px;">(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p style="padding-left: 40px;">(2) Open door 159R (A1-F18AC-LMM-010).</p> <p style="padding-left: 40px;">(3) Disconnect 61P-V019B from J2 on encoder-decoder.</p> <p style="padding-left: 40px;">(4) Turn on electrical power (A1-F18AC-LMM-000).</p> <p style="padding-left: 40px;">(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</p> <p style="padding-left: 40px;">(6) Does stray voltage exist between:</p> <p style="padding-left: 80px;">61P-V029A pin 1 and aircraft ground</p> <p style="padding-left: 80px;">61P-V029A pin 6 and aircraft ground? .....</p> <p>d. Replace Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00) and do step f .....</p> <p>e. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....</p>	<p>b</p> <p>-</p> <p>-</p> <p>d</p> <p>-</p> <p>-</p>	<p>c</p> <p>-</p> <p>-</p> <p>e</p> <p>-</p> <p>-</p>

Table 7. Station 9 Word 1 Data Readout XX1XXX (Continued)

Procedure	No	Yes
f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-V019B		
(2) 61P-V029A		
(3) Door 144R		
(4) Door 159R .....	-	-

Table 8. Station 9 Word 1 Data Readout XXX2XX

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.	
Component locations are shown in WP007 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wiring	
Guided Missile Launcher LAU-7( )	
Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)	

Table 8. Station 9 Word 1 Data Readout XXX2XX



Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Turn off electrical power (A1-F18AC-LMM-000).</li> <li>(2) Disconnect AIM-9 test adapter from launcher umbilical connector J2.</li> <li>(3) Open door 159R (A1-F18AC-LMM-010).</li> <li>(4) Disconnect 61P-V019A from J1 on encoder-decoder.</li> <li>(5) Does continuity exist between:               <div style="margin-left: 40px;">                 J2 pin 23 and 61P-V019A pin 13                  J2 pin 30 and 61P-V019A pin 13                  J2 pin 6 and 61P-V019A pin 14? .....               </div> </li> </ol> <p>b. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Open door 144R (A1-F18AC-LMM-010).</li> </ol> <div style="text-align: center;">  <p>CAUTION</p> </div> <p>When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.</p> <ol style="list-style-type: none"> <li>(2) Disconnect 61P-V029A from J1 on LAU-7.</li> <li>(3) Does continuity exist between:</li> </ol>		
	b	e

Table 8. Station 9 Word 1 Data Readout XXX2XX (Continued)


Procedure	No	Yes
61P-V029A pin 22 and 61P-V019A pin 13 61P-V029A pin 18 and 61P-V019A pin 14? .....	c	d
c. Isolate defective aircraft wiring (A1-F18( )-WDM-000) and do step g .....	-	-
d. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step g .....	-	-
e. Do substeps listed below:		
(1) Open door 144R (A1-F18AC-LMM-010).		
		
When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.		
(2) Disconnect 61P-V029A from J1 on LAU-7.		
(3) In door 159R disconnect 61P-V019B from J2 on Encoder-Decoder.		
(4) Does continuity exist between 61P-V029A pin 25 and 61P-V019B pin 5? .....	c	f
f. Malfunction caused by one of the items listed below:		
(1) Right Wing Tip command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00).		
(2) Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00).		
Do step g .....	-	-
g. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		
(1) 61P-V019A		
(2) 61P-V019B		
(3) 61P-V029A		
(4) Door 144R		
(5) Door 159R .....	-	-

Table 9. Station 9 Word 1 Data Readout XXX1XX


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring		
Guided Missile Launcher LAU-7( )		
Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		

Table 9. Station 9 Word 1 Data Readout XXX1XX (Continued)


Procedure	No	Yes
<p>a. Do substeps listed below.</p> <p>(1) Turn off electrical power (A1-F18AC-LMM-000).</p> <p>(2) Disconnect AIM-9 test adapter cable from LAU-7 umbilical connector J2.</p> <p>(3) Open door 159R (A1-F18AC-LMM-010).</p> <p>(4) Disconnect 61P-V019A from J1 on encoder-decoder.</p> <p>(5) Does continuity exist between:</p> <p>J2 pin 34 and 61P-V019A pin 5</p> <p>J2 pin 5 and 61P-V019A pin 9</p> <p>J2 pin 6 and 61P-V019A pin 6</p> <p>J2 pin 6 and 61P-V019A pin 10? .....</p>	b	e
<p>b. Do substeps listed below:</p> <p>(1) Open door 144R (A1-F18AC-LMM-010).</p>		
<div style="text-align: center;">  </div>		
<p>When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.</p> <p>(2) Disconnect 61P-V029A from J1 on LAU-7.</p> <p>(3) Does continuity exist between:</p> <p>61P-V029A pin 23 and 61P-V019A pin 5</p> <p>61P-V029A pin 21 and 61P-V019A pin 9</p> <p>61P-V029A pin 18 and 61P-V019A pin 6</p> <p>61P-V029A pin 18 and 61P-V019A pin 10? .....</p>	c	d
c. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
d. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step f .....	-	-
e. Replace Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00) and do step f .....	-	-
<p>f. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:</p> <p>(1) 61P-V019A</p>		

Table 9. Station 9 Word 1 Data Readout XXX1XX (Continued)

Procedure	No	Yes
(2) 61P-V029A		
(3) Door 144R		
(4) Door 159R . . . . .	-	-

Table 10. Station 9 Word 1 Data Readout XXXX2X

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP007 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring		
Guided Missile Launcher LAU-7( )		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		



Table 10. Station 9 Word 1 Data Readout XXXX2X (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 144R (A1-F18AC-LMM-010).		
<p style="text-align: center;"><b>CAUTION</b></p> <p>When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(3) Disconnect 61P-V029A from J1 on LAU-7.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) Does 28vdc exist between 61P-V029A pin 15 and aircraft ground? .....	b	c
b. Isolate defective aircraft wiring between 61P-V029A pin 15 and 61P-V029B pin 4 (A1-F18A( )-WDM-000) and do step d .....	-	-
c. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step d .....	-	-
d. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed:		

Table 10. Station 9 Word 1 Data Readout XXXX2X (Continued)

Procedure	No	Yes
(1) 61P-V029A		
(2) Door 144R .....	-	-

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-9 SIDEWINDER WEAPON STATION POWER CONTROL, PART 1

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control System .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

## Alphabetical Index

## Subject


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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**Table 1. Sidewinder Weapon Station 1 115vac Power Control Fail**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
<p>Weapon Station 1 Power Control Schematic and Weapon Station 1, 9 AIM-9 Side-winder Schematic (A1-F18AC-740-500, WP026 00 and WP046 00) may be used as aids when doing this procedure.</p> <p>Component locations are shown in WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <p>Guided Missile Launcher LAU-7( )  Aircraft Wiring  Armament Computer CP-1342/AYQ-9(V)  Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V)  No. 7 Circuit Breaker/Relay Panel Assembly  <input type="checkbox"/> 2 No. 11 Relay Panel Assembly</p>		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p><input type="checkbox"/> 1 52P-C057E</p>		

**Table 1. Sidewinder Weapon Station 1 115vac Power Control Fail (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If installed, remove test set from weapon station.		
(3) On right wing tip LAU-7, install jumper wire from J2 pin 14 to to aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), 1 power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(7) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 9L/9M/TST symbol on stores display for station 1? .....	c	d
c. Troubleshoot Station 1 Sidewinder Missile Symbol Is Not Displayed On Stores Display (WP010 22, Table 1) .....	-	-
d. Memory inspect station 1 weapon power control (CORESV/BIT 4) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV (table 2, WP010 19).		

Table 1. Sidewinder Weapon Station 1 115vac Power Control Fail (Continued)


Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XX5XXX? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00) and do step ac .....	-	-
f. Does 115vac exist between left wingtip LAU-7 connector J2 pins 1 and 21 (aircraft ground)? .....	g	k
g. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Does continuity exist between:		
LAU-7 J2 pin 6 and aircraft ground		
LAU-7 J2 pin 9 and aircraft ground		
LAU-7 J2 pin 21 and aircraft ground? .....	h	l
h. Do substeps below.		
(1) Open door 144L (A1-F18AC-LMM-010).		
		
<p>When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(2) Disconnect 61P-U021A from LAU-7 launcher.		
(3) Does continuity exist between 61P-U021A pin 16 and aircraft ground? .....	i	j
i. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step ac .....	-	-
j. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00) and do step ac .....	-	-

Table 1. Sidewinder Weapon Station 1 115vac Power Control Fail (Continued)


Procedure	No	Yes
k. Replace test set and do step ac .....	-	-
l. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		
(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045D from no. 11 relay panel assembly.		
(4) Does continuity exist between <input type="checkbox"/> 1 52P-C057C pin U or <input type="checkbox"/> 2 52P-U045D pin S and LAU-7 J2 pin 1? .....	m	n
m. Do substeps below:		
(1) Open door 144L (A1-F18AC-LMM-010).		
<div style="text-align: center;">  </div>		
<p style="text-align: center;">When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(2) Disconnect 61P-U021A from LAU-7.		
(3) Does continuity exist between <input type="checkbox"/> 1 52P-C057C pin U or <input type="checkbox"/> 2 52P-U045D pin S and 61P-U021A pin 9 .....	i	j
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 1 52P-C057E from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045B from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-C057E pin 71 and pin 86 (aircraft ground)? or <input type="checkbox"/> 2 52P-U045B pin s and pin u (aircraft ground)? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		

Table 1. Sidewinder Weapon Station 1 115vac Power Control Fail (Continued)

Procedure	No	Yes
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s? .....	i	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) <input type="checkbox"/> 1 Disconnect 52P-C057F from no. 7 circuit breaker/relay panel assembly.		
(5) Does continuity exist between 61P-F001B pin 32 and <input type="checkbox"/> 1 52P-C057F pin 30 or <input type="checkbox"/> 2 52P-U045B pin CC? .....	i	<input type="checkbox"/> 1 s or <input type="checkbox"/> 2 t
q. Do substeps below:		
(1) Disconnect 52P-U045B from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(4) Does 115vac exist between 52P-U045B pin GG and aircraft ground? .....	r	n
r. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		
(4) Does continuity exist between 52P-C057C pin U and 52P-U045B pin GG? .....	i	s
s. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, station 1 power control relay (61K-C121) and ARM STA 1 circuit breaker (61CBC052) (A1-F18AC-420-300, WP027 00). Do step ac .....	-	-
t. <input type="checkbox"/> 2 Isolate malfunction between no. 11 relay panel assembly wiring and station 1 power control relay (61K-U121) (A1-F18AC-420-300, WP043 00). Do step ac .....	-	-
u. Do substeps below:		



Table 1. Sidewinder Weapon Station 1 115vac Power Control Fail (Continued)


Procedure	No	Yes
(1) If test set is installed on weapon station, turn electrical power off (A1-F18AC-LMM-000) and remove test set.  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.  (4) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), 1 power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.  (5) On RDDI, do substeps below: (a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed. (b) Press STORES pushbutton switch. (c) Is 9L/9M/TST symbol on stores display for station 1? .....	y	v
v. Do substeps below: (1) Turn electrical power off (A1-F18AC-LMM-000). (2) Open door 159L (A1-F18AC-LMM-010). (3) Disconnect 61P-U011B from encoder-decoder. (4) Does short exist between 61P-U011B pin 3 and aircraft ground? .....	w	x
w. Replace Left Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00). Do step ac .....	-	-
x. Do substeps below: (1) Open door 144L (A1-F18AC-LMM-010).		
<div style="text-align: center;">  </div> <p style="text-align: center;">When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(2) Disconnect 61P-U021A from LAU-7. (3) Does short exist between 61P-U021A pin 26 and aircraft ground? .....	j	i
y. Memory inspect station 1 weapon power control (CORESV/BIT 4) by doing substeps below:		



Table 1. Sidewinder Weapon Station 1 115vac Power Control Fail (Continued)

Procedure	No	Yes
(1) Using unit address 06, memory inspect address for ref code CORESV (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A, DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XX5XXX? .....	z	e
z. Does 115vac exist between LAU-7 connector J2 pin 1 and aircraft ground? .....	k	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 144L (A1-F18AC-LMM-010).		
<p style="text-align: center;"><b>CAUTION</b></p> <p>When disconnecting 61P-U021A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(3) Disconnect 61P-U021A from LAU-7.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(4) On LAU-7, does continuity exist between J1 pin 9 and J2 pin 1? .....	j	ab
ab. Do substeps below:		
(1) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		
(2) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045D from no. 11 relay panel assembly.		

Table 1. Sidewinder Weapon Station 1 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p align="center"><b>NOTE</b></p> <p align="center">Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
<p>(3) Does continuity exist between <input type="checkbox"/> 1 52P-C057C pin U or <input type="checkbox"/> 2 52P-U045D pin S and 61P-U021A pin 9? .....</p> <p>ac. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 52P-C057C</p> <p>(2) <input type="checkbox"/> 1 52P-C057E</p> <p>(3) <input type="checkbox"/> 1 52P-C057F</p> <p>(4) <input type="checkbox"/> 2 52P-U045B</p> <p>(5) <input type="checkbox"/> 2 52P-U045D</p> <p>(6) 61P-F001B</p> <p>(7) 61P-U011B</p> <p>(8) 61P-U021A</p> <p>(9) Doors 10L, 14R, 144L, 159L, 79L</p> <p>(10) Jumper wire (J2 pin 14 on LAU-7)</p>	i	<input type="checkbox"/> 1 s or <input type="checkbox"/> 2 t
<p align="center"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

**Table 2. Sidewinder Weapon Station 2 115vac Power Control Fail**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
<p>Weapon Station 2 Power Control Schematic and Weapon Station 2, 8 AIM-9 Side-winder Schematic (A1-F18AC-740-500, WP027 00 and WP047 00) may be used as aids when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p> <p>Malfunction is caused by one of the items listed below:</p> <ul style="list-style-type: none"> <li>Aircraft Wing Pylon SUU-63( )</li> <li>Aircraft Wiring</li> <li>Armament Computer CP-1342/AYQ-9(V)</li> <li>Guided Missile Launcher LAU-115C/A</li> <li>LAU-115 Jumper Cable W56235</li> <li>Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)</li> <li>No. 7 Circuit Breaker/Relay Panel Assembly</li> <li>No. 11 Relay Panel Assembly</li> </ul>		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p>To prevent damage to aircraft wiring or equipment, make sure multimeter leads/jumper wires are installed on correct pins. When electrical power is off, 24vdc battery voltage exists on some pins of connectors listed below:</p> <p> 52P-C057E</p>		

**Table 2. Sidewinder Weapon Station 2 115vac Power Control Fail (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095B (LAU-115 jumper cable W56235) from LAU-115 launcher.		
(4) Install jumper wire between 61P-W095B <input type="checkbox"/> 1 pin q or <input type="checkbox"/> 2 pin u (AIM-9 Ident) and aircraft ground.		
(5) Turn electrical power on (A1-F18AC-LMM-000).		
(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(7) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), 1 power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(8) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 9L/9M symbol on stores display for station 2? .....	c	d
c. Troubleshoot Station 2 Sidewinder Missile Count Is Not Correct On Stores Display (WP010 23, Table 3) .....	-	-
d. Memory inspect station 2 weapon power control (CORESV+4/BIT 6) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).		

Table 2. Sidewinder Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XX3XXX? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between 61P-W095B <input type="checkbox"/> 1 pin CC and pin DD or <input type="checkbox"/> 2 pin FF and pin LL (aircraft ground)? .....	h	g
g. Replace left outboard Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(4) Does continuity exist between:		
<input type="checkbox"/> 1 61P-W093 pin 67 and 61P-W095B pin CC		
<input type="checkbox"/> 1 61P-W093 pin 68 and 61P-W095B pin DD? .....	i	j
<input type="checkbox"/> 2 61P-W093 pins 86/87 and 61P-W095B pin FF		
<input type="checkbox"/> 2 61P-W093 pins 68/9 and 61P-W095B pin LL? .....	i	j
i. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open <input type="checkbox"/> 1 door 10L or <input type="checkbox"/> 2 door 79L (A1-F18AC-LMM-010).		

Table 2. Sidewinder Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
(3) Disconnect <input type="checkbox"/> 1 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-D045C from no. 11 relay panel assembly.		
(4) Does continuity exist between:		
<input type="checkbox"/> 1 61P-W095B pin CC and 52P-C057C pin u		
<input type="checkbox"/> 1 61P-W095B pin DD and aircraft ground? .....	k	n
<input type="checkbox"/> 2 61P-W095B pin FF and 52P-U045C pin c		
<input type="checkbox"/> 2 61P-W095B pin LL and aircraft ground? .....	k	n
k. Do substeps below:		
(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
<input type="checkbox"/> 1 52J-U062 pins 73/95 and 52P-C057C pin u		
52J-U062 pin 87 and aircraft ground		
ON 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74,		
52J-U062 pin 82 and aircraft ground? .....	l	m
<input type="checkbox"/> 2 52J-U062 pin 97 and 52P-U045C pin c		
<input type="checkbox"/> 2 52J-U062 pins 82/87 and aircraft ground .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad .....	-	-
n. Do substeps below:		
(1) Disconnect <input type="checkbox"/> 1 52P-C057E from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045B from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between <input type="checkbox"/> 1 52P-C057E pin 71 and pin 86 (aircraft ground) or <input type="checkbox"/> 2 52P-U045B pin s and pin u (aircraft ground)? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		

Table 2. Sidewinder Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 122 and <input type="checkbox"/> 1 52P-C057E pin 71 or <input type="checkbox"/> 2 52P-U045B pin s? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Disconnect <input type="checkbox"/> 1 52P-C057F from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 2 52P-U045B from no. 11 relay panel assembly.		
(5) Does continuity exist between 61P-F001B pin 26 and <input type="checkbox"/> 1 52P-C057F pin 30 or <input type="checkbox"/> 2 52P-U045B pin e? .....	l	<input type="checkbox"/> 1 s or <input type="checkbox"/> 2 t
q. Do substeps below:		
(1) Disconnect 52P-U045A from no. 11 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches B ON for 3 seconds.		
(4) Does 115vac exist between 52P-U045A pin S and aircraft ground? .....	r	n
r. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10L (A1-F18AC-LMM-010).		
(3) Disconnect 52P-C057C from no. 7 circuit breaker/relay panel assembly.		
(4) Does continuity exist between 52P-C057C pin s and 52P-U045A pin S? .....	l	s
s. Isolate malfunction between no. 7 circuit breaker/relay panel assembly wiring, station 2 power control relay (61K-C122) and ARM STA 2 circuit breaker (61CBC056) (A1-F18AC-420-300, WP027 00). Do step ad .....	-	-
t. Isolate malfunction between no. 11 relay panel assembly wiring and station 2 power control relay (61K-U122) (A1-F18AC-420-300, WP043 00). Do step ac .....	-	-



Table 2. Sidewinder Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
u. Do substeps below: <ul style="list-style-type: none"> <li>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</li> <li>(2) On pylon, open door 502 (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 61P-W095B (LAU-115 jumper cable W56235) from LAU-115 launcher.</li> <li>(4) Turn electrical power on (A1-F18AC-LMM-000).</li> <li>(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.</li> <li>(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), 1 power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.</li> <li>(7) On RDDI:               <ul style="list-style-type: none"> <li>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</li> <li>(b) Press STORES pushbutton switch.</li> <li>(c) Is 9L/9M symbol on stores display for station 2? .....</li> </ul> </li> </ul>	y	v
v. Do substeps below: <ul style="list-style-type: none"> <li>(1) Turn electrical power off (A1-F18AC-LMM-000).</li> <li>(2) On pylon, open door 504 (A1-F18AC-LMM-010).</li> <li>(3) Disconnect 61P-W012D from encoder-decoder.</li> <li>(4) Does short exist between:               <ul style="list-style-type: none"> <li>61P-W012D pin EE (AIM-9 Ident Left) and aircraft ground</li> <li>61P-W012D pin c (AIM-9 Ident Right) and aircraft ground? .....</li> </ul> </li> </ul>	w	x
w. Replace Left Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP007 00). Do step ad .....	-	-
x. Do substeps below: <ul style="list-style-type: none"> <li>(1) On pylon, open door 502 (A1-F18AC-LMM-010).</li> <li>(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.</li> <li>(3) Does short exist between:</li> </ul>		



Table 2. Sidewinder Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>61P-W012D pin EE (AIM-9 Ident Left) and aircraft ground 61P-W012D pin c (AIM-9 Ident Right) and aircraft ground? .....</p> <p>y. Memory inspect station 2 weapon power control (CORESV+4/BIT 6) by doing substeps below:</p> <p>(1) Using unit address 06, memory inspect address for ref code CORESV+4 (table 2, WP010 19).</p>	i	m
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
<p>(2) On RDDI, does DATA readout display XX3XXX? .....</p>	z	e
<p>z. Does 115vac exist between 61P-W095B <input type="checkbox"/> 1 pin CC or <input type="checkbox"/> 2 pin FF and aircraft ground? .....</p>	g	aa
<p>aa. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 502 (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
<p>(4) On LAU-115 jumper cable W56235 does continuity exist between <input type="checkbox"/> 1 61P-W093 pin 67 and 61P-W095B pin CC or <input type="checkbox"/> 2 61P-W093 pin 86/87 and 61P-W095B pin FF?</p>	i	ab
<p>ab. Do substeps below:</p> <p>(1) Remove left outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p>		

Table 2. Sidewinder Weapon Station 2 115vac Power Control Fail (Continued)

Procedure	No	Yes
<p>(3) Does 115vac exist between 52J-U062 <input type="checkbox"/> pins 73/95 or <input type="checkbox"/> pin 97 and aircraft ground? .....</p> <p>ac. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open <input type="checkbox"/> door 10L or <input type="checkbox"/> door 79L (A1-F18AC-LMM-010).</p> <p>(3) Disconnect <input type="checkbox"/> 52P-C057C from no. 7 circuit breaker/relay panel assembly or <input type="checkbox"/> 52P-U045C from no. 11 panel assembly.</p>	m	ac
<b>NOTE</b>		
Bent/recessed pins in a connector are a common cause of stray voltage.		
<p>(4) Does continuity exist between:</p> <p><input type="checkbox"/> 52P-C057C pin u and 52J-U062 pins 73/95? .....</p> <p><input type="checkbox"/> 52P-U045C pin c and 52J-U062 pin 97? .....</p>	l  l	s  t
<p>ad. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 52P-C057C</p> <p>(2) <input type="checkbox"/> 52P-C057E</p> <p>(3) <input type="checkbox"/> 52P-C057F</p> <p>(4) <input type="checkbox"/> 52P-U045A</p> <p>(5) <input type="checkbox"/> 52P-U045B</p> <p>(6) <input type="checkbox"/> 52P-U045C</p> <p>(7) 61P-W012D</p> <p>(8) 61P-W093</p> <p>(9) 61P-W095B</p> <p>(10) 61P-F001B</p> <p>(11) Doors 10L, 14R, 502, 504, 79L</p> <p>(12) Jumper wire (61P-W095B)</p>		

**Table 2. Sidewinder Weapon Station 2 115vac Power Control Fail (Continued)**

Procedure	No	Yes
(13) Aircraft Wing Pylon SUU-63( ) .....	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TROUBLESHOOTING - AIM-9 SIDEWINDER WEAPON STATION POWER CONTROL, PART 2

## SUSPENSION AND RELEASE MECHANISMS

## Reference Material

Airborne Weapons/Stores Loading .....	A1-F18AE-LWS-000
Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Memory Inspect Data .....	WP010 19

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability (ECP-MDA- F/A-18-00090)	15 Dec 89	ECP Cover- age Only
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**Table 1. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Weapon Station 8 Power Control Schematic and Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP033 00 and WP047 00) may be used as aids when doing this procedure.		
For component locations, refer to WP007 00.		
Memory inspect data used in this procedure is provided in WP010 19.		
Malfunction is caused by one of the items listed below:		
Aircraft Wing Pylon SUU-63( ) Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Guided Missile Launcher LAU-115C/A No. 2 Circuit Breaker Panel Assembly No. 2 Relay Panel Assembly No. 4 Circuit Breaker Panel Assembly Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div>NOTE</div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p>		

**Table 1. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
1. Pin to pin test per procedural step. 2. Shorts to ground. 3. Shorts between surrounding pins on connectors. 4. Shorts between shield and conductors. 5. Shield continuity.		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	v
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095B (LAU-115 jumper cable W56229) from LAU-115.		
(4) Connect jumper wire between 61P-W095B pin q (AIM-9 Ident) and aircraft ground.		
(5) Turn electrical power on (A1-F18AC-LMM-000).		
(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(7) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(8) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 9L/9M symbol on stores display for station 8? .....	c	d
c. Troubleshoot Station 8 Sidewinder Missile Count Is Not Correct On Stores Display (WP010 29, Table 3) .....	-	-
d. Memory inspect station 8 weapon power control (CORESV+6/BIT 11) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+6 (table 2, WP010 19).		

**Table 1. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<b>NOTE</b>		
DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display XXXX2X? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ae .....	-	-
f. Does 115vac exist between 61P-W095B pin CC and pin DD (aircraft ground)? .....	h	g
g. Replace right outboard Aircraft Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step ae .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(4) Does continuity exist between:		
61P-W093 pin 67 and 61P-W095B pin CC 61P-W093 pin 68 and 61P-W095B pin DD? .....	i	j
i. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step ae .....	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-F058D from no. 2 relay panel assembly.		
(4) Does continuity exist between:		
52P-F058D pin C and 61P-W095B pin CC Aircraft ground and 61P-W095B pin DD? .....	k	n
k. Do substeps below:		
(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		



**Table 1. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
52J-V068 pins 73/95 and 52P-F058D pin c 52J-V068 pins 87 and aircraft ground ON 162394 AND UP; ALSO 61353 THRU 161987 AFTER F/A-18 AFC 74, 52J-V068 pins 82 and aircraft ground .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ae .....	-	-
m. Replace right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00) Do step ae .....	-	-
n. Do substeps below:		
(1) Disconnect 52P-F058C from no. 2 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000)		
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between 52P-F058C pin 38 and pin 78 (aircraft ground)? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000)		
(2) Disconnect 61P-F001B from armament computer.		
(3) Does continuity exist between 61P-F001B pin 24 and 52P-F058C pin 38? .....	l	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000)		
(2) Disconnect 61P-F001B from armament computer.		
(3) Does continuity exist between 61P-F001B pin 28 and 52P-F058C pin 73? .....	l	q
q. Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000)		
(2) Does 115vac exist between 52P-F058D pin S and aircraft ground? .....	r	u

**Table 1. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-000).		
(3) On 161353 THRU 161359, disconnect 52P-D026C from no. 4 circuit breaker panel assembly.		
(4) On 161353 AND UP, disconnect 52P-D026C from no. 2 circuit breaker panel assembly.		
(5) On 161353 THRU 161359, does continuity exist between 52P-D026C pin p and 52P-F058D pin S? .....	l	s
(6) On 161353 AND UP, does continuity exist between 52P-D026C pin p and 52P-F058D pin S? .....	l	t
s. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and ARM STA 8 circuit breaker (61CBD080) (A1-F18AC-420-300, WP025 00). Do step ae .....	-	-
t. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 8 circuit breaker (61CBD080) (A1-F18AC-420-300, WP024 00). Do step ae .....	-	-
u. Isolate malfunction between no. 2 relay panel assembly wiring and station 8 power control relay (61K-F128) (A1-F18AC-420-300, WP032 00). Do step ae .....	-	-
v. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000)		
(2) On pylon, open door 502 (A1-F18AC-LMM-000)		
(3) Disconnect 61P-W095B (LAU-115 jumper cable W56235) from LAU-115 launcher.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and old 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(7) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		

**Table 1. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(b) Press STORES pushbutton switch.		
(c) Is 1 9L/9M/TST symbol on stores display for station 8? .....	z	w
w. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from Encoder-decoder.		
(4) Does short exist between 61P-W012D pins c/EE (AIM-9 Ident left/right) and aircraft ground? .....	x	y
x. Replace Right Wing Outboard Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP0007 00). Do step ae .....	-	-
y. Do substeps below:		
(1) On pylon, open door 504 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Does short exist between 61P-W012D pins c/EE (AIM-9 Ident left/right) and aircraft ground? .....	i	m
z. Memory inspect station 8 weapon power control (CORESV+6/BIT 11) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+6 (table 2, WP010 19).		
<b>NOTE</b>		
DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display XXXX2X? .....	aa	e
aa. Does 115vac exist between 61P-W095B pin CC and aircraft ground?	g	ab
ab. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		

**Table 1. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Bent/recessed pins in connectors are a common cause of stra voltage.</p>		
<p>(4) On LAU-115 jumper cable W56235, does continuity exist between 61P-W093 pin 67 and 61P-W095B pin CC? .....</p> <p>ac. Do substeps below:</p> <p>(1) Remove right outboard Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) Does 115vac exist between 52J-V068 pins 73/95 and aircrat ground? .....</p> <p>ad. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 52P-F058D from no. 2 relay panel assembly.</p>	<p>i</p> <p>m</p>	<p>ac</p> <p>ad</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">Bent/recessed pins in connectors are a common cause of stra voltage.</p>		
<p>(4) Does continuity exist between 52P-F058D pin C and 52J-V068 pins 73/95? .....</p> <p>ae. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.</p> <p>(1) 52P-D024C</p> <p>(2) 52P-D026C</p> <p>(3) 52P-F058C</p> <p>(4) 52P-F058D</p> <p>(5) 61P-W093</p> <p>(6) 61P-W012D</p> <p>(7) 61P-W095B</p> <p>(8) 61P-F001B</p>	<p>l</p>	<p>u</p>

**Table 1. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(9) Doors 10R, 14R, 502, 504		
(10) Jumper wire (61P-W095B)		
(11) Aircraft Wing Pylon SUU-63( ) .....	-	-

**Table 2. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 8 Power Control Schematic (A1-F18AC-740-500, WP033 00) and Weapon Station 2, 8 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP047 00) may be used as an aid when doing this procedure.	
For component locations, refer to WP007 00.	
Memory inspect data used in this procedure is provided in WP010 19.	
Malfunction is caused by one of the items listed below:	
Aircraft Wing Pylon SUU-63( )	
Aircraft Wiring	
Armament Computer CP-1342/AYQ-9(V)	
Guided Missile Launcher LAU-115C/A	
LAU-115 Jumper Cable W56235	
No. 2 Circuit Breaker Panel Assembly	
No. 10 Relay Panel Assembly	
Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V)	

**Table 2. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095B (LAU-115 jumper cable W56235) from LAU-115.		
(4) Connect jumper wire between 61P-W095B pin q (AIM-9 Ident left) and aircraft ground.		
(5) Turn electrical power on (A1-F18AC-LMM-000).		
(6) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(7) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(8) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 1 9L/9M symbol on stores display for station 8? .....	c	d
c. Troubleshoot Station 8 Sidewinder Missile Count Is Not Correct On Stores Display (WP010 29, Table 3) .....	-	-
d. Memory inspect station 8 weapon power control (CORESV+6/BIT 11) by doing substeps below:		

**Table 2. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(1) Using unit address 06, memory inspect address for ref code CORESV+6 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX1X? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between 61P-W095B pin FF and pin LL (aircraft ground)? .....	h	g
g. Replace Guided Missile Launcher LAU-115C/A (A1-F18AC-740-300, WP025 00). Do step ad .....	-	-
h. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(4) Does continuity exist between:		
61P-W093 pin 86 and 61P-W095B pin FF		
61P-W093 pin 87 and 61P-W095B pin FF		
61P-W093 pin 68 and 61P-W095B pin LL		
61P-W093 pin 9 and 61P-W095B pin LL? .....	i	j
i. Replace LAU-115 jumper cable W56235 (A1-F18AC-740-300, WP025 00). Do step ad .....	-	-
j. Do substeps below:		
(1) Connect 61P-W093 to AIR-AIR pylon disconnect.		
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
(4) Does continuity exist between:		

**Table 2. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
52P-V044C pin c and 61P-W095B pin FF Aircraft ground and 61P-W095B pin LL? .....	k	n
k. Do substeps below:		
(1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).		
(2) Does continuity exist between:		
52J-V068 pin 97 and 52P-V044C pin c		
52J-V068 pin 82 and aircraft ground		
52J-V068 pin 87 and aircraft ground? .....	l	m
l. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
m. Replace Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00). Do step ad ....	-	-
n. Do substeps below:		
(1) Disconnect 52P-V044A from no. 10 relay panel assembly.		
(2) Turn on electrical power (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(4) Does 115vac exist between 52P-V044A pin S and aircraft ground? .....	o	q
o. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		
(4) Does continuity exist between 52P-D024C pin b and 52P-V044A pin S? .....	l	p
p. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 8 115 $\phi$ C circuit breaker (61CBD082) (A1-F18AC-420-300, WP024 00) and do step ad .....	-	-
q. Do substeps below:		
(1) Disconnect 52P-V044B from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		



**Table 2. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(3) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(4) Does 28vdc exist between 52P-V044B pin s and pin a (aircraft ground)? .....	r	s
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 24 and 52P-V044B pin s? .....	l	e
s. Do substeps below:		
(1) Turn electrical power off (A1-FMC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-F001B from armament computer.		
(4) Does continuity exist between 61P-F001B pin 28 and 52P-V044B pin a? .....	l	t
t. Isolate malfunction between no. 10 relay panel assembly wiring and station 8 power control relay (61K-V128) (A1-F18AC-420-300, WP042 00). Do step ad .....	-	-
u. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) On pylon, open door 502 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W095B (LAU-115 jumper cable W56235) from LAU-115 launcher.		
(4) Turn electrical power on (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(7) On RDDI:		

**Table 2. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.  (b) Press STORES pushbutton switch.  (c) Is 1 9L/9M symbol on stores display for station 8?	y	v
v. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) On pylon, open door 504 (A1-F18AC-LMM-010).		
(3) Disconnect 61P-W012D from encoder-decoder.		
(4) Does short exist between 61P-W012D pins c/EE (AIM-9 Ident left/right) and aircraft ground? .....	w	x
w. Replace Wing Pylon Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP009 00). Do step ad .....	-	-
x. Do substeps below:		
(1) On pylon, open door 502 (A1-F18AC-LMM-010).		
(2) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
(3) Does short exist between 61P-W012D pins c/EE (AIM-9 Ident left/right) and aircraft ground? .....	i	m
y. Memory inspect station 8 weapon power control (CORESV+8/BIT 12) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+8 (table 2, WP010 19).		
<p style="text-align: center;"><b>NOTE</b></p> <p>There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XXXX1X? .....	z	e
z. Does 115vac exist between 61P-W095B pin FF and aircraft ground? .....	g	aa

**Table 2. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
aa. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) On pylon, open door 502 (A1-F18AC-LMM-010).  (3) Disconnect 61P-W093 from AIR-AIR pylon disconnect.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) On LAU-115 jumper cable W56235, does continuity exist between 61P-W093 pins 86/87 and 61P-W095B pin FF? .....	i	ab
ab. Do substeps below:  (1) Remove Aircraft Wing Pylon SUU-63( ) (A1-F18AC-740-300, WP034 00).  (2) Turn electrical power on (A1-F18AC-LMM-000).  (3) Does 115vac exist between 52J-V068 pin 97 and aircraft ground? .....	m	ac
ac. Do substeps below:  (1) Turn electrical power off (A1-F18AC-LMM-000).  (2) Open door 79R (A1-F18AC-LMM-010).  (3) Disconnect 52P-V044C from no. 10 relay panel assembly.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		
(4) Does continuity exist between 52P-V044C pin c and 521-V068 pins 97? .....	l	u
ad. If disconnected, removed, or opened during this procedure, make sure the items listed below are connected, installed, or closed.  (1) 52P-D024C  (2) 52P-V044A  (3) 52P-V044B  (4) 52P-V044C  (5) 61P-W093		


**Table 2. Sidewinder Weapon Station 8 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(6) 61P-W012D		
(7) 61P-W095B		
(8) 61P-F001B		
(9) Doors 10R, 14R, 79R, 502, 504		
(10) Remove jumper wire (61P-W095B pin u)		
(11) Aircraft Wing Pylon SUU-63( ) .....	-	-

**Table 3. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Weapon Station 9 Power Control Schematic and Weapon Station 1, 9 AIM-9 Side-winder Schematic (A1-F18AC-740-500, WP034 00 and WP046 00) may be used as aids when doing this procedure.	
For component locations, refer to WP007 00.	
Memory inspect data used in this procedure is provided in WP010 19.	

**Table 3. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Malfunction is caused by one of the items listed below:		
Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Guided Missile Launcher LAU-7( ) No. 2 Circuit Breaker Panel Assembly No. 2 Relay Panel Assembly No. 4 Circuit Breaker Panel Assembly Right Wing Tip Command Signal Encoder-Decoder KY-853/AYQ-9(V)		
Procedure	No	Yes
<div style="text-align: center;">  <p>CAUTION</p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a Is troubleshooting being done for 115vac existing when it should be off? .....	b	v
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) If installed, remove test set from weapon station.		
(3) On right wing tip LAU-7, install jumper wire from J2 pin 14 to aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		

**Table 3. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>(7) On RDDI:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 9L/9M/TST symbol on stores display for station 9? .....</p>	c	d
c. Troubleshoot Station 9 Sidewinder Missile Symbol Is Not Displayed On Stores Display (WP010 30, Table 2) .....	-	-
d. Memory inspect station 9 weapon power control (CORESV+2/BIT 4) by doing substeps below:		
<p>(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).</p>		
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.</p>		
(2) On RDDI, does DATA readout display XX4XXX? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ad .....	-	-
f. Does 115vac exist between left wingtip LAU-7 connector J2 pins 1 and 21 (aircraft ground)? .....	g	k
g. Do substeps below:		
<p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Does continuity exist between:</p> <p style="padding-left: 40px;">LAU-7 J2 pin 6 and aircraft ground</p> <p style="padding-left: 40px;">LAU-7 J2 pin 9 and aircraft ground</p> <p style="padding-left: 40px;">LAU-7 J2 pin 21 and aircraft ground? .....</p>	h	l
h. Do substeps below:		
<p>(1) Open door 144R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 61P-V029A from LAU-7.</p> <p>(3) Does continuity exist between 61P-V029A pin 16 and aircraft ground? .....</p>	i	j

**Table 3. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
i. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ad .....	-	-
j. Replace Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step ad .....	-	-
k. Replace test set. Do step ad .....	-	-
l. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 14R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-F058A from no. 2 relay panel assembly.		
(4) Does continuity exist between 52P-F058A pin J and LAU-7 J2 pin 1? .....	m	n
m. Do substeps below:		
(1) Open door 144R (A1-F18AC-LMM-010).		
(2) Disconnect 61P-V029A from LAU-7.		
(3) Does continuity exist between 52P-F058A pin J and 61P-V029A pin 9 .....	i	j
n. Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(3) Does 28vdc exist between 52P-F058A pins 38 and 78 (aircraft ground)? .....	o	p
o. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from armament computer.		
(3) Disconnect 52P-F058C from no. 2 relay panel assembly.		
(4) Does continuity exist between 61P-F001B pin 24 and 52P-F058C pin 38? .....	i	e
p. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Disconnect 61P-F001B from armament computer.		

**Table 3. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(3) Does continuity exist between 61P-F001B pin 15 and 52P-F058C pin 60? .....	i	q
q. Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) Does 28vdc exist between 52P-F058A pin D to aircraft ground? .....	r	u
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) On 161353 THRU 161359, disconnect 52P-D026C from no. 4 circuit breaker panel assembly. Does continuity exist between 52P-D026C pin N and 52P-F058A pin D? .....	i	s
(4) On 161360 AND UP, disconnect 52P-D024C from no. 2 circuit breaker panel assembly. Does continuity exist between 52P-D024C pin N and 52P-F058A pin D? .....	i	t
s. Isolate malfunction between no. 4 circuit breaker panel assembly wiring and ARM STA 9 circuit breaker (61CBD084) (A1-F18AC-420-300, WP025 00). Do step ad .....	-	-
t. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 9 circuit breaker (61CBD084) (A1-F18AC-420-300, WP024 00). Do step ad .....	-	-
u. Isolate malfunction between no. 2 relay panel assembly wiring and station 9 power control relay (61K-F129) (A1-F18AC-420-300, WP032 00). Do step ad .....	-	-
v. Do substeps below:		
(1) If test set is installed on weapon station, turn electrical power off (A1-F18AC-LMM-000) and remove test set.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2, and 3 switches to B ON for 3 seconds.		
(4) On left and right Digital Display Indicators IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.		
(5) On RDDI, do substeps below:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		



**Table 3. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
(c) Is 9L/9M/TST symbol on stores display for station 9? .....	z	w
w. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 159R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-V019B from encoder-decoder.		
(4) Does short exist between 61P-V019B pin 3 and aircraft ground? .....	x	y
x. Replace Right Wing Tip Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00). Do step ad .....	-	-
y. Do substeps below:		
(1) Open door 144R (A1-F18AC-LMM-010).		
(2) Disconnect 61P-V029A from LAU-7.		
(3) Does short exist between 61P-V029A pin 26 and aircraft ground? .....	j	i
z. Memory inspect station 9 weapon power control (CORESV+2/BIT 4) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
<b>NOTE</b>		
DDI DATA readout is 6 octal digits. When an X is indicated in an octal digit location in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display XX4XXX? .....	aa	e
aa. Does 115vac exist between LAU-7 connector J2 pin 1 and aircraft ground? .....	k	ab
ab. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 144R (A1-F18AC-LMM-010).		
(3) Disconnect 61P-V029A from LAU-7.		
<b>NOTE</b>		
Bent/recessed pins in connectors are a common cause of stray voltage.		

**Table 3. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B (Continued)**

Procedure	No	Yes
<p>(4) On LAU-7, does continuity exist between J1 pin 9 and J2 pin 1 .....</p> <p>ac. Do substeps below:</p> <p>(1) Open door 14R (A1-F18AC-LMM-010).</p> <p>(2) Disconnect 52P-F058A from no. 2 relay panel assembly.</p>	j	ac
<p><b>NOTE</b></p> <p>Bent/recessed pins in a connector are a common cause of stray voltage.</p>		
<p>(3) Does continuity exist between 52P-F058A pin J and 61P-V029A pin 9? .....</p> <p>ad. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) 52P-F058A</p> <p>(2) 52P-F058C</p> <p>(3) 52P-D024C</p> <p>(4) 52P-D026C</p> <p>(5) 61P-F001B</p> <p>(6) 61P-V019B</p> <p>(7) 61P-V029A</p> <p>(8) Doors 10R, 14R, 144R, 159R</p> <p>(9) Jumper wire (J2 on LAU-7) .....</p>	i	u
	-	-


**Table 4. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292**

<b>Support Equipment Required</b>		
<b>Part Number or Type Designation</b>	<b>Nomenclature</b>	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
<p>Weapon Station 9 Power Control Schematic (A1-F18AC-740-500, WP034 00) and Weapon Station 1, 9 AIM-9 Sidewinder Schematic (A1-F18AC-740-500, WP046 00) may be used as an aid when doing this procedure.</p> <p>For component locations, refer to WP007 00.</p> <p>Memory inspect data used in this procedure is provided in WP010 19.</p>		
<p>Malfunction is caused by one of the items listed below:</p> <p style="margin-left: 20px;">Aircraft Wiring Armament Computer CP-1342/AYQ-9(V) Guided Missile Launcher LAU-7( ) No. 2 Circuit Breaker Panel Assembly No. 10 Relay Panel Assembly Wing Command Signal Encoder-Decoder KY-851/AYQ-9(V)</p>		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Is troubleshooting being done for 115vac existing when it should be off? .....	b	u
b. Do substeps below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		


**Table 4. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(2) If installed, remove test set from weapon station.		
(3) On right wing tip LAU-7, install jumper wire from J2 pin 14 to aircraft ground.		
(4) Turn on electrical power (A1-F18AC-LMM-000).		
(5) On GND PWR control panel assembly. set and hold 1. 2 and 3 switches to B ON for 3 seconds.		
(6) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT for best display.		
(7) On RDDI:		
(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.		
(b) Press STORES pushbutton switch.		
(c) Is 9L/9M/TST symbol on stores display for station 9? .....	c	d
c. Troubleshoot Station 9 Sidewinder Missile Symbol Is Not Displayed On Stores Display (WP010 30 Table 2) .....	-	-
d. Memory inspect station 9 weapon power control (CORESV+2BIT 4) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP010 19).		
<b>NOTE</b>		
There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display XX4XXX? .....	e	f
e. Replace Armament Computer CP-1342/AYQ-9(V) (A1-F18AC-740-300, WP006 00). Do step ac .....	-	-
f. Does 115vac exist between left wingtip LAU-7 connector J2 pins 1 and 21 (aircraft ground)? .....	g	k

**Table 4. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
g. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Does continuity exist between:		
LAU-7 J2 pin 6 and aircraft ground		
LAU-7 J2 pin 9 and aircraft ground		
LAU-7 J2 pin 21 and aircraft ground? .....	h	l
h. Do substeps below:		
(1) Open door 144R (A1-F18AC-LMM-010).		
<div style="text-align: center;">  </div>		
<p style="text-align: center;">When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.</p>		
(2) Disconnect 61P-V029A from LAU-7.		
(3) Does continuity exist between 61P-V029A pin 16 and aircraft ground? .....	i	j
i. Isolate defective aircraft wiring (A1-F18A( )-WDM-000). Do step ac .....	-	-
j. Replace Aircraft Guided Missile Launcher LAU-7( ) (A1-F18AC-740-300, WP024 00). Do step ac .....	-	-
k. Replace test set. Do step ac .....	-	-
l. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 79R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-V044D from no. 10 relay panel assembly.		
(4) Does continuity exist between 52P-V044D pin S and LAU-7 J2 pin 1? .....	m	n
m. Do substeps below:		
(1) Open door 144R (A1-F18AC-LMM-010).		


**Table 4. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<div style="text-align: center;">  </div>		
When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.		
(2) Disconnect 61P-V029A from LAU-7.		
(3) Does continuity exist between 52P-V044D pin S and 61P-V029A pin 9 .....	i	j
n. Do substeps below:		
(1) Disconnect 52P-V044B from no. 10 relay panel assembly.		
(2) Turn electrical power on (A1-F18AC-LMM-000).		
(3) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.		
(4) Does 115vac exist between 52P-V044B pin GG and aircraft ground? .....	o	q
o. Do substeps below:		
(1) Turn off electrical power (A1-F18AC-LMM-000).		
(2) Open door 10R (A1-F18AC-LMM-010).		
(3) Disconnect 52P-D024C from no. 2 circuit breaker panel assembly.		
(4) Does continuity exist between 52P-D024C pin N and 52P-V044B pin GG? .....	i	p
p. Isolate malfunction between no. 2 circuit breaker panel assembly wiring and ARM STA 9 circuit breaker (61CBD084) (A1-F18AC-420-300, WP024 00) and do step ac .....	-	-
q. Do substeps below:		
(1) Turn electrical power on (A1-F18AC-LMM-000).		
(2) On GND PWR control panel assembly, set and hold 3 switch to B ON for 3 seconds.		
(3) Does 28vdc exist between 52P-V044B pins s and a (aircraft ground)? .....	r	s
r. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		

**Table 4. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**


Procedure	No	Yes
<p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 24 and 52P-V044B pin s? .....</p> <p>s. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 14R (A1-F18AC-LMM-010).</p> <p>(3) Disconnect 61P-F001B from armament computer.</p> <p>(4) Does continuity exist between 61P-F001B pin 15 and 52P-V044B pin CC? .....</p> <p>t. Isolate malfunction between no. 10 relay panel assembly wiring and station 9 power control relay (61K-V129) (A1-F18AC-420-300, WP042 00). Do step ac .....</p> <p>u. Do substeps below:</p> <p>(1) If test set is installed on weapon station, turn electrical power off (A1-F18AC-LMM-000) and remove test set.</p> <p>(2) Turn electrical power on (A1-F18AC-LMM-000).</p> <p>(3) On GND PWR control panel assembly, set and hold 1, 2 and 3 switches to B ON for 3 seconds.</p> <p>(4) On left and right Digital Display Indicators (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warmup. Adjust BRT and CONT for best display.</p> <p>(5) On RDDI, do substeps below:</p> <p>(a) Press and release MENU pushbutton switch until STORES pushbutton option is displayed.</p> <p>(b) Press STORES pushbutton switch.</p> <p>(c) Is 9L/9M/TST symbol on stores display for station 9? .....</p> <p>v. Do substeps below:</p> <p>(1) Turn electrical power off (A1-F18AC-LMM-000).</p> <p>(2) Open door 159R (A1-F18AC-LMM-010).</p>	<p>i</p> <p>i</p> <p>-</p> <p>y</p>	<p>e</p> <p>t</p> <p>-</p> <p>v</p>

**Table 4. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
(3) Disconnect 61P-V019B from encoder-decoder.		
(4) Does short exist between 61P-V019B pin 3 and aircraft ground? .....	w	x
w. Replace Wing Command Signal Encoder-Decoder KY-851/AYQ-9(V) (A1-F18AC-740-300, WP007 00). Do step ac .....	-	-
x. Do substeps below:		
(1) Open door 144R (A1-F18AC-LMM-010).		
<div style="text-align: center;">  </div>		
When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.		
(2) Disconnect 61P-V029A from LAU-7.		
(3) Does short exist between 61P-V029A pin 26 and aircraft ground? .....	j	i
y. Memory inspect station 9 weapon power control (CORESV+2/BIT 4) by doing substeps below:		
(1) Using unit address 06, memory inspect address for ref code CORESV+2 (table 2, WP043 00).		
<div style="text-align: center;"> <b>NOTE</b> </div>		
There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeroes to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.		
(2) On RDDI, does DATA readout display XX4XXX? .....	z	e
z. Does 115vac exist between LAU-7 connector J2 pin 1 and aircraft ground? .....	k	aa
aa. Do substeps below:		
(1) Turn electrical power off (A1-F18AC-LMM-000).		
(2) Open door 144R (A1-F18AC-LMM-010).		



**Table 4. Sidewinder Weapon Station 9 115vac Power Control Fail –  
F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292 (Continued)**

Procedure	No	Yes
<div style="text-align: center;">  <p>When disconnecting 61P-V029A, a straight pull on the connector is required to prevent connector pin damage.</p> </div>		
(3) Disconnect 61P-V029A from LAU-7.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(4) On LAU-7, does continuity exist between J1 pin 9 and J2 pin 1 .....	j	ab
ab. Do substeps below:		
(1) Open door 79R (A1-F18AC-LMM-010).		
(2) Disconnect 52P-V044D from no. 10 relay panel assembly.		
<p style="text-align: center;"><b>NOTE</b></p> <p>Bent/recessed pins in connectors are a common cause of stray voltage.</p>		
(3) Does continuity exist between 52P-V044D pin S and 61P-V029A pin 9? .....	i	t
ac. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) 52P-V044B		
(2) 52P-V044D		
(3) 52P-D024C		
(4) 61P-F001B		
(5) 61P-V019B		
(6) 61P-V029A		
(7) Doors 10R, 14R, 79R, 144R, 159R		
(8) Jumper wire (J2 pin 14 on LAU-7) .....	-	-



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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**LOCATOR**  
**ELECTRICAL BORESIGHT COMPENSATION SYSTEM**

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**Reference Material**

None

**Alphabetical Index**

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**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp	Remarks
F18 AFC 20	15 Sep 86	Provisions for Electronic Boresighting of Radar (ECP MDA-F/A-18-00050)	15 Jun 84	-
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

**1. INTRODUCTION.**

2. This work package supports testing and trouble-shooting of the Electrical Boresight Compensation System.

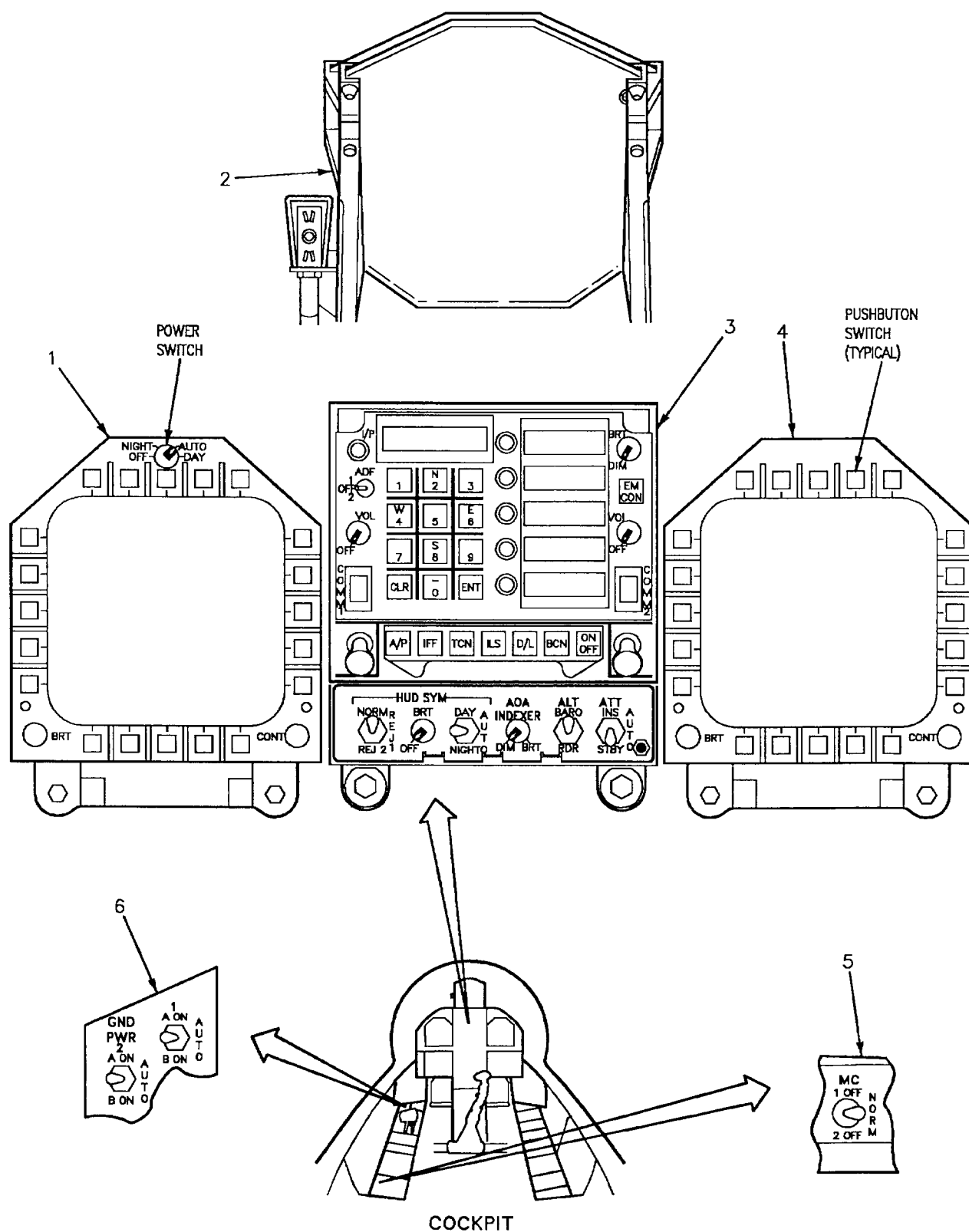
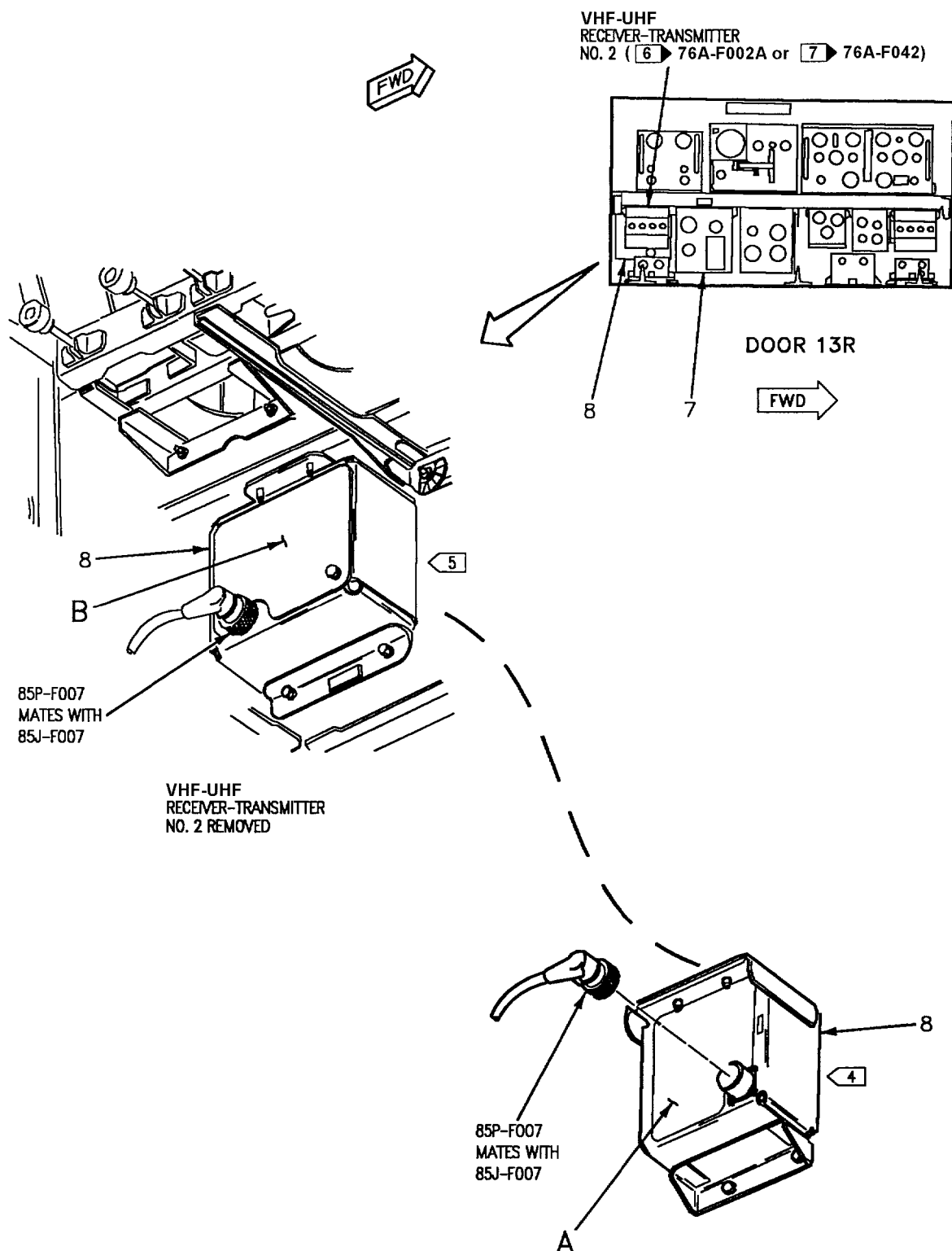
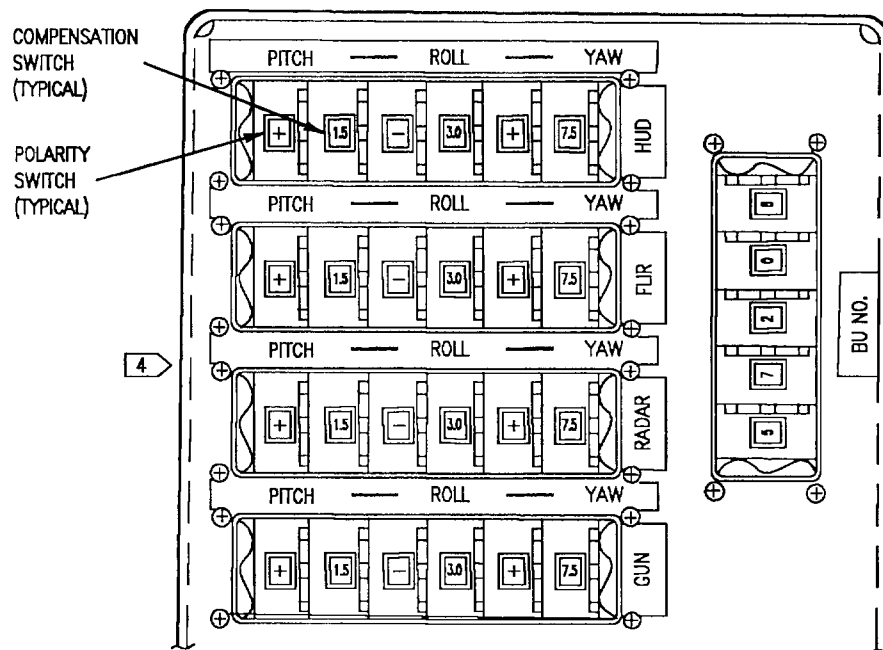


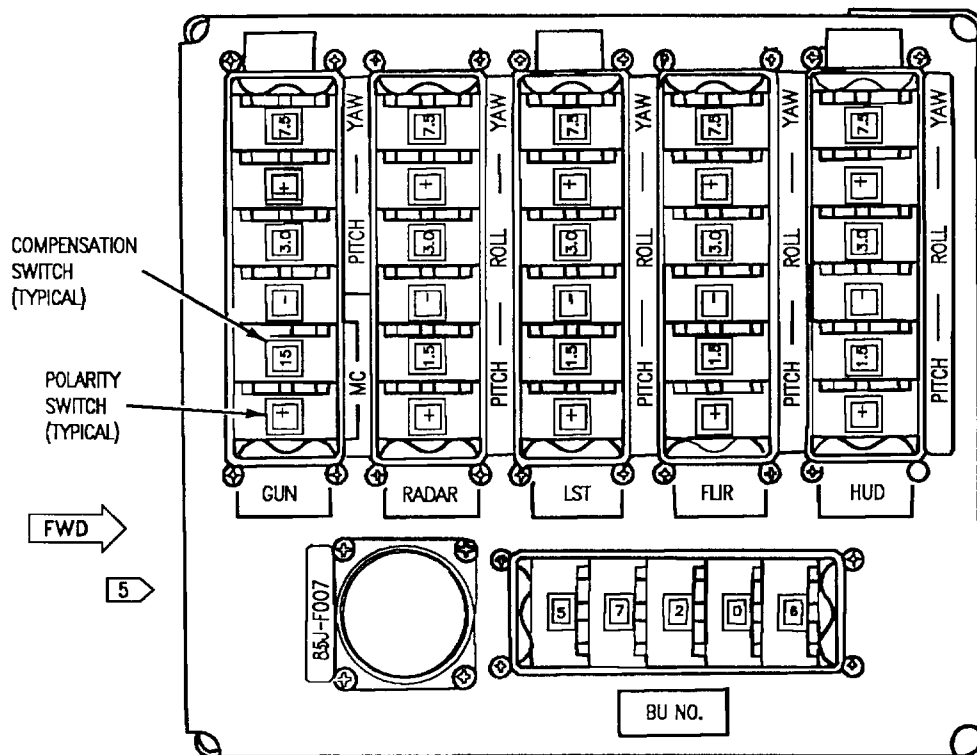
Figure 1. Electrical Boresight Compensation System, Locator (Sheet 1)

03800101





A



B

Figure 1. Electrical Boresight Compensation System, Locator (Sheet 3)

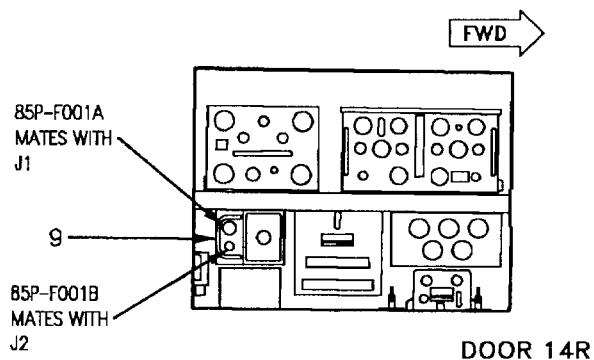
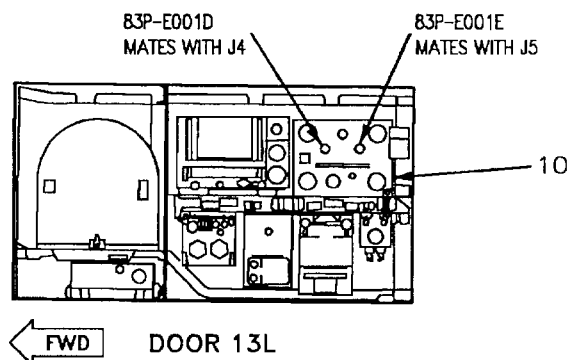
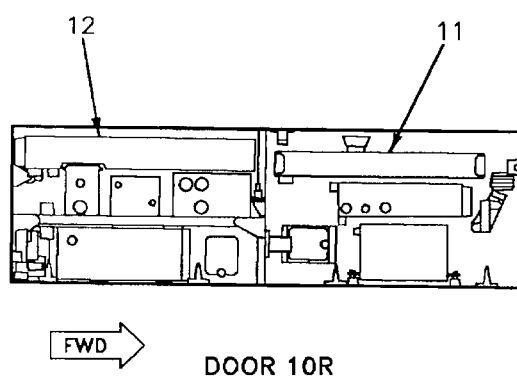
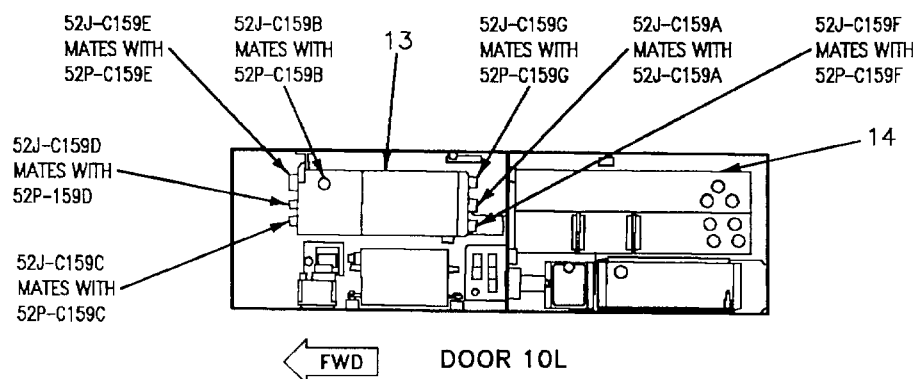


Figure 1. Electrical Boresight Compensation System Locator (Sheet 4)

Nomenclature	Index No.	Ref Des
CONTROL CONVERTER C-10382/A	7	82A-F001
DIGITAL DATA COMPUTER NO. 1	10	83A-E001
ELECTRICAL BORESIGHT COMPENSATION ASSEMBLY	8	85A-F007
ELECTRONIC EQUIPMENT CONTROL C-10380/ASQ	3	79A-J006
GND PWR CONTROL PANEL ASSEMBLY	6	1A-H004
HEAD UP DISPLAY UNIT AN/AVQ-28	2	79A-J001
LEFT DIGITAL DISPLAY INDICATOR IP-1317( )	1	80A-H001
MC HYD ISOL CONTROL PANEL ASSEMBLY	5	52A-H081
NO. 2 CIRCUIT BREAKER PANEL ASSEMBLY	11	52A-D024
NO. 4 CIRCUIT BREAKER PANEL ASSEMBLY	12	52A-D026
NO. 7 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY	13	52A-C057
NO. 8 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY	14	52A-C159
RIGHT DIGITAL DISPLAY INDICATOR IP-1317( )	4	80A-J002
SIGNAL DATA RECORDER RO-508/ASM-612	9	85A-F001
<p style="text-align: center;"><b>LEGEND</b></p> <p>1. AIRCRAFT CONNECTOR LOCATIONS ARE SHOWN IN A1-F18A( )-WDM-000.</p> <p>2. AIRCRAFT DOOR LOCATIONS ARE SHOWN IN A1-F18AC-LMM-010.</p> <p>3. CIRCUIT BREAKER ZONES ARE SHOWN IN A1-F18AC-LMM-000.</p> <p>4 161353 THRU 161528 BEFORE F18 AFC 20.</p> <p>5 161353 THRU 161528 BEFORE F18 AFC 20.</p> <p>6 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p>7 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Figure 1. Electrical Boresight Compensation System Locator (Sheet 5)



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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**CIRCUIT BREAKERS**  
**ELECTRICAL BORESIGHT COMPENSATION SYSTEM**

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**Reference Material**

None

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No. 4 Circuit Breaker Panel Assembly, Table 2 .....	2
No. 7 Circuit Breaker/Relay Panel Assembly, Table 3 .....	2
No. 8 Circuit Breaker/Relay Panel Assembly, Table 4 .....	2

**Record of Applicable Technical Directives**

None

**1. INTRODUCTION.**

2. This work package supports testing and troubleshooting of the Electrical Boresight Compensation System.

3. Circuit breaker/relay panel assembly locations are shown in WP038 00. For detailed location data, see A1-F18AC-LMM-000.

**Table 1. No. 2 CIRCUIT BREAKER PANEL ASSEMBLY**







<b>ZONE</b>	<b>REF DES</b>	<b>NOMENCLATURE</b>	<b>BUS</b>
 A11	80CBD007	MFD	R115VACφA
 A11	82CBD002	CSC	R115VACφA
 A17	80CBD007	MFD	R115VACφA
 B11	80CBD008	MFD	R115VACφB
 B11	82CBD003	CSC	R115VACφB
 B17	80CBD008	MFD	R115VACφB

Table 1. No. 2 CIRCUIT BREAKER PANEL ASSEMBLY (Continued)

ZONE	REF DES	NOMENCLATURE	BUS
1 C11	80CBD009	MFD	R115VAC $\phi$ C
2 C11	82CBD004	CSC	R115VAC $\phi$ C
2 D7	80CBD009	MFD	R115VAC $\phi$ C
<b>NOTES</b> 1 161353 THRU 161359. 2 161360 AND UP.			

Table 2. No. 4 CIRCUIT BREAKER PANEL ASSEMBLY

ZONE	REF DES	NOMENCLATURE	BUS
2 B3	82CBD005	CSC	R28VDC
1 C7	82CBD004	CSC	R115VAC $\phi$ C
1 C8	82CBD003	CSC	R115VAC $\phi$ B
1 C9	82CBD002	CSC	R115VAC $\phi$ A
1 C12	82CBD005	CSC	R28VDC
<b>NOTES</b> 1 161353 THRU 161359. 2 161360 AND UP.			

Table 3. No. 7 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY

ZONE	REF DES	NOMENCLATURE	BUS
A20	83CBC006	MISSION COMP No. 1	L115VAC $\phi$ A
B20	83CBC007	MISSION COMP No. 1	L115VAC $\phi$ B
C20	83CBC008	MISSION COMP No. 1	L115VAC $\phi$ C

Table 4. No. 8 CIRCUIT BREAKER/ RELAY PANEL ASSEMBLY

ZONE	REF DES	NOMENCLATURE	BUS
D2	85CBC004	MSDRS	MAINT24/28VDC
D12	80CBC006	MMD	L115VAC $\phi$ C
E12	80CBC005	MMD	L115VAC $\phi$ B
F12	80CBC004	MMD	L115VAC $\phi$ A

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ORGANIZATIONAL MAINTENANCE

TESTING AND TROUBLESHOOTING

TESTING

ELECTRICAL BORESIGHT COMPENSATION SYSTEM

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Title	WP Number
Electrical Boresight Compensation System - 161702 AND UP; ALSO 161353 THRU 163528	
AFTER F18 AFC 20 .....	040 01
Electrical Boresight Compensation System - 161353 THRU 161528 BEFORE F18 AFC 20 .....	040 02



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING

## ELECTRICAL BORESIGHT COMPENSATION SYSTEM

EFFECTIVITY: 161702 AND UP; ALSO 161353 THRU 161528 AFTER F18 AFC 20

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Communication, Tacan, ADF, Electronic Altimeter, and IFF Systems .....	A1-F18AC-600-300
VHF/UHF Receiver-Transmitter No. 1 or No. 2 .....	WP003 00
Weapon Control Systems .....	A1-F18AC-740-200
Electrical Boresight Compensation System Locator .....	WP038 00
Memory Inspect Data .....	WP010 19

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Electrical Boresight Compensation System Test, Table 1 .....	2

## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 20	15 Sep 86	Provisions for Electronic Boresighting of Radar (ECP MDA-F/A-18-00050)	15 Feb 88	-
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Electrical Boresight Compensation System Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>System Required Components</b></p> <p align="center">Electrical Boresight Compensation Assembly</p> <p align="center"><b>Related Systems Required</b></p> <p align="center">Avionics Cooling System Electrical Systems Maintenance Status Display and Recording Systems Mission Computer System Multipurpose Display Group</p> <p align="center"><b>Support Equipment Required</b></p> <p align="center">None</p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p align="center">If a malfunction occurs during this test, make sure that circuit breakers shown in WP039 00 are closed.</p> <p align="center">Component locations are shown in WP038 00.</p> <p align="center">Work package (WP) 010 19 provides the memory inspect address for ref codes tested in this WP.</p>		
<p>1. PRELIMINARY.</p> <p>a. When boresight switch settings are not known, do the substeps below:</p> <p align="center">(1) Remove VHF/UHF Receiver-Transmitter No. 2 (<input type="checkbox"/> 1 → 76A-F002 or <input type="checkbox"/> 2 → 76A-F042) (A1-F18AC-600-300, WP003 00).</p> <p align="center">(2) Record boresight switch settings for HUD, FLIR, RADAR, MC, LST, and GUN.</p> <p>b. Apply electrical power (A1-F18AC-LMM-000).</p>		

Table 1. Electrical Boresight Compensation System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. On GND PWR control panel assembly, set and hold 1 and 2 switches to B ON for 3 seconds.</p> <p>d. On MC/HYD ISOL control panel assembly, set MC switch to NORM.</p> <p>e. On left and right Digital Display Indicator IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.</p>	<p>Switches remain on (latched).</p>	<p>1. If switches unlatch in 10 to 30 seconds, apply aircraft external cooling air (A1-F18AC-LMM-000).</p> <p>2. If no switches remain on, do GND PWR Switching System Test (A1-F18AC-420-300, WP006 00).</p> <p>3. If on, but not all switches remain on, replace GND PWR Control Panel Assembly (A1-F18AC-420-300, WP023 00).</p>
<p>2. PROCEDURE.</p> <p>a. On RDDI, press and release MENU pushbutton switch until BIT option is displayed.</p> <p>b. On RDDI, press BIT pushbutton switch.</p>	<p>1. LDDI and RDDI have display and center pushbutton switch on bottom row is labeled MENU.</p> <p>2. LDDI has cautions and advisory display.</p> <p>Menu display appears on RDDI.</p> <p>BIT control display appears on RDDI.</p>	<p>1. No. display on LDDI, F/A-18A, do table 1 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 1 (A1-F18AC-745-200, WP007 00).</p> <p>2. No display on RDDI, F/A-18A, do table 2 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 2 (A1-F18AC-745-200, WP007 00).</p> <p>3. If STANDBY is displayed, on F/A-18A, do table 2 (A1-F18AC-745-200, WP004 00). On F/A-18B, do table 2 (A1-F18AC-745-200, WP005 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>

**Table 1. Electrical Boresight Compensation System Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
c. On RDDI, press MI pushbutton switch.	1. Changes below appear on RDDI display:  a. RDDI BIT control display changes to memory inspect display.  b. Increment arrow, decrement arrow, ADDR, and DATA appear on RDDI memory inspect display.	Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).
d. On equipment control, press option 1 select switch and adjust BRT control for best display.	2. Electronic Equipment Control C-10380/ASQ (equipment control) displays options listed below:  a. UNIT appears in option 1 display.  b. ADDR appears in option 2 display.	See Electronic Equipment Control C-10380/ASQ Lamp and Switch Test (A1-F18AC-741-200, WP004 00).
	Option 1 select colon (:) appears on left side of option 1 display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If an error occurs while pressing keyboard switches, press keyboard CLR switch and repeat step.</p>		
e. Press keyboard 2 and 8 switches.	28 is displayed on equipment control scratch pad display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
f. Press keyboard ENT switch.	28 (unit address) is displayed between ADDR and DATA on RDDI memory inspect display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
g. Press option 2 select switch.	Option 2 select colon(:) appears on left side of option 2 display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
h. Using keyboard switches, enter address for ref code PBSTDφ (table 3, WP010 19).	Address for ref code PBSTDφ is displayed on equipment control scratch pad display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).



Table 1. Electrical Boresight Compensation System Test (Continued)

Procedure	Normal Indication	Remedy for Abnormal Indication
<p style="text-align: center;"><b>NOTE</b></p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 10A; DDI DATA readout is 6 octal digits. When X is indicated in an octal digit location in this procedure, that digit is ignored.</p> <p>WITH DIGITAL DATA COMPUTER CONFIG/IDENT 15C AND UP; There are eleven octal digit locations in the DDI DATA readout. The six octal digits to the right are the data read out and each location reads 0 to 7. The five leading zeros to the left remain zero and are ignored. When an X is indicated on one or more of the six right most octal digit locations in this procedure, that digit is ignored.</p>		
i. Press keyboard ENT switch.	<p>1. Address for ref code PBSTDφ is displayed under ADDR on RDDI memory inspect display.</p> <p>2. Bureau number word 1 data readout is displayed under DATA. This readout represents the last three digits of the bureau number. Use fig. 1 to convert the value listed under DATA to these digits.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Do table 8 (WP041 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>Pressing the address increment pushbutton increases the memory access address by 1. Pressing the address decrement pushbutton decreases the memory access address by 1. If memory inspecting changing data, pressing the FRZ pushbutton switch will stop octal data readout at that point. Pressing FRZ pushbutton switch again will allow the data to resume.</p>		
j. On RDDI, press increment pushbutton switch.	<p>1. Address for ref code PBSTDφ (table 3, WP010 19), is displayed under ADDR.</p> <p>2. Bureau number word 2 data readout is displayed under DATA. This readout represents the second and third digits of the bureau number. Use fig. 1 to convert the value listed under DATA to these digits.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Do table 1 (WP041 00).</p>

**Table 1. Electrical Boresight Compensation System Test (Continued)**

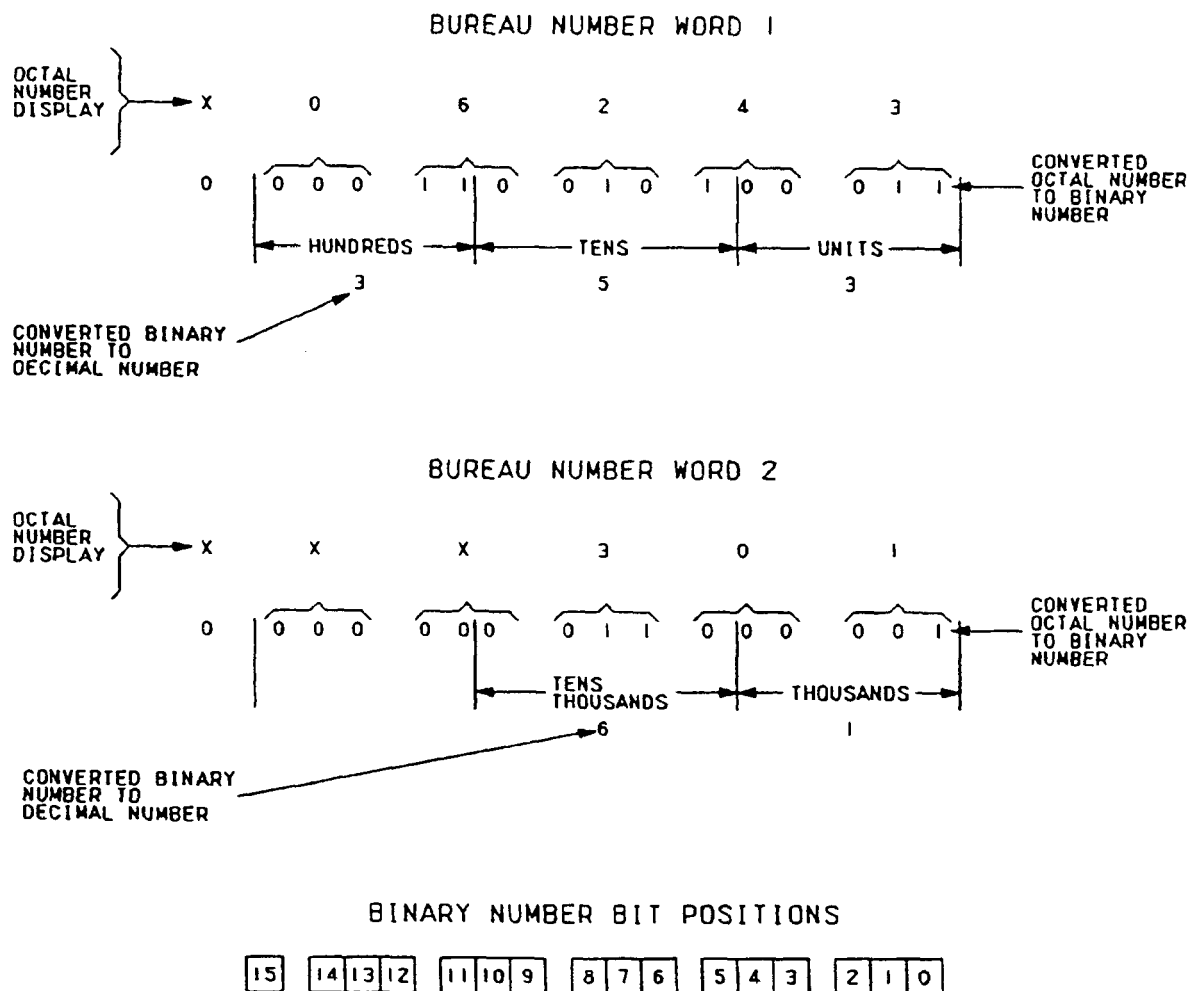
Procedure	Normal Indication	Remedy for Abnormal Indication
<p>k. Using keyboard switches, memory inspect addresses for ref codes below for HUD boresight (table 3, WP010 19).</p> <p>(1) PHUYAW - YAW</p> <p>(2) PHRφLL - ROLL</p> <p>(3) PHPTCH - PITCH</p>	Use table 2 to convert the value displayed under DATA to recorded switch setting.	<p>Do table 2 (WP041 00).</p> <p>Do table 3 (WP041 00).</p> <p>Do table 4 (WP041 00).</p>
<p>l. Using keyboard switches, memory inspect addresses for ref codes below for FLIR boresight (table 3, WP010 19).</p> <p>(1) PFLYAW - YAW</p> <p>(2) PFRφLL - ROLL</p> <p>(3) PFPTCH - PITCH</p>	Use table 2 to convert the value displayed under DATA to recorded switch setting.	<p>Do table 5 (WP041 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p>
<p>m. Using keyboard switches, memory inspect address for ref codes below for GUN and MC boresight (table 3, WP010 19).</p> <p>(1) PGNYAW - YAW</p> <p>(2) PGROLL - MC boresight</p> <p>(3) PGPTCH - PITCH</p>	Use table 2 to convert the value displayed under DATA to recorded switch setting.	<p>Do table 6 (WP041 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p>

**Table 1. Electrical Boresight Compensation System Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>n. Using keyboard switches, memory inspect addresses for ref codes below for LST boresight (table 3, WP010 19).</p> <p>(1) PTL<math>\phi</math>AW - YAW</p> <p>(2) PTR<math>\phi</math>LL - ROLL</p> <p>(3) PTPTCH - PITCH</p> <p>o. Using keyboard switches, memory inspect ref codes below for RADAR boresight (table 3, WP010 19).</p> <p>(1) PRDYAW - YAW</p> <p>(2) PRR<math>\phi</math>LL - ROLL</p> <p>(3) PRPTCH - PITCH</p> <p>3. TURN OFF PROCEDURE.</p> <p>a. On LDDI and RDDI, set power switch to OFF.</p> <p>b. Remove electrical power (A1-F18AC-LMM-000).</p> <p>c. If removed, install VHF/UHF Receiver-Transmitter No. 2 (<input type="checkbox"/> 1 <math>\rightarrow</math> 76A-F002 or <input type="checkbox"/> 2 <math>\rightarrow</math> 76A-F042) (A1-F18AC-600-300, WP003 00).</p>	<p>Use table 2 to convert the value displayed under DATA to recorded switch setting.</p> <p>Use table 2 to convert the value displayed under DATA to recorded switch setting.</p>	<p>Do table 7 (WP041 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p> <p>Do table 9 (WP041 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p>
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 <math>\rightarrow</math> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 <math>\rightarrow</math> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 2. Boresight Conversion

Positive Switch Settings	Right Digital Display Indicator IP-1317( ) DATA Readings	Negative Switch Settings	Right Digital Display Indicator IP-1317( ) DATA Readings
0	000000	0	000000
.5	000020	.5	177760
1.0	000040	1.0	177740
1.5	000060	1.5	177720
2.0	000100	2.0	177700
2.5	000120	2.5	177660
3.0	000140	3.0	177640
3.5	000160	3.5	177620
4.0	000200	4.0	177600
4.5	000220	4.5	177560
5.0	000240	5.0	177540
5.5	000260	5.5	177520
6.0	000300	6.0	177500
6.5	000320	6.5	177460
7.0	000340	7.0	177440
7.5	000360	7.5	177420



## NOTES

1. AN X IN AN OCTAL DIGIT POSITION INDICATES THAT DIGIT IS IGNORED. BITS 4, 9, AND 14 IN CONVERTED BINARY NUMBER ARE IGNORED SINCE THEY REPRESENT THE SIGN OF PITCH, ROLL AND YAW, THE ALTERNATE INPUTS.
2. TO CONVERT OCTAL NUMBER TO DECIMAL BUREAU NUMBER DO THE STEPS BELOW:
  - A. RECORD DISPLAYED OCTAL NUMBER.
  - B. CONVERT OCTAL NUMBER TO BINARY NUMBER.
  - C. CONVERT BINARY NUMBER TO DECIMAL NUMBER.
  - D. DECIMAL NUMBER EQUALS BUREAU NUMBER.

Figure 1. Bureau Number Data Readout Example



## ORGANIZATIONAL MAINTENANCE

## TESTING AND TROUBLESHOOTING

## TESTING

## ELECTRICAL BORESIGHT COMPENSATION SYSTEM

EFFECTIVITY: 161353 THRU 161528 BEFORE F18 AFC 20

## Reference Material

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Communication, Tacan, ADF, Electronic Altimeter, and IFF Systems .....	A1-F18AC-600-300
Receiver-Transmitter RT-1250( )/ARC (76A-F001 and 76A-F002) .....	WP003 00
Weapon Control Systems .....	A1-F18AC-740-200
Electrical Boresight Compensation System Locator .....	WP038 00
Memory Inspect Data .....	WP010 19

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## Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 20	15 Sep 86	Provisions For Electronic Boresighting of Radar, (ECP MDA-F/A-18-00050	15 Jun 84	-

Table 1. Electrical Boresight Compensation System Test

Procedure	Normal Indication	Remedy for Abnormal Indication
<p align="center"><b>System Required Components</b></p> <p align="center">Electrical Boresight Compensation Assembly</p> <p align="center"><b>Related Systems Required</b></p> <p align="center">Avionics Cooling System Electrical systems Maintenance Status Display and Recording Systems Mission Computer System Multipurpose Display Group</p> <p align="center"><b>Support Equipment Required</b></p> <p align="center"><b>Materials Required</b></p> <p align="center">None</p> <p align="center"><b>NOTE</b></p> <p align="center">If a malfunction occurs during this test, make sure that circuit breakers shown in WP039 00 are closed.</p> <p align="center">Component locations are shown in WP038 00.</p> <p align="center">Work package (WP)010 19 provides the memory inspect address for ref codes tested in this WP.</p>		
<p>1. PRELIMINARY.</p> <p>a. When boresight switch settings are not known, do the substeps below:</p> <p align="center">(1) Remove Receiver-Transmitter, RT-1250( )/ARC No. 2 (76A-F002) (A1-F18AC-600-300, WP003 00).</p> <p align="center">(2) Record boresight switch settings for HUD, FLIR, RADAR, MC, and GUN.</p> <p>b. Apply electrical power (A1-F18AC-LMM-000).</p>		



**Table 1. Electrical Boresight Compensation System Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. On GND PWR control panel assembly, set and hold 1 and 2 switches to B ON for 3 seconds.</p> <p>d. On MC/HYD ISOL control panel assembly, set MC switch to NORM.</p> <p>e. On left and right Digital Display Indicator IP-1317( ) (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm up. Adjust BRT and CONT controls for best display.</p>	<p>Switches remain on (latched).</p>	<p>1. If switches unlatch in 10 to 30 seconds, apply aircraft external cooling air (A1-F18AC-LMM-000).</p> <p>2. If switches will not remain on, troubleshoot (A1-F18AC-FIM-000, WP012 00).</p>
<p>2. PROCEDURE.</p> <p>a. On RDDI, press MENU pushbutton switch.</p> <p>b. On RDDI, press BIT pushbutton switch.</p>	<p>1. LDDI and RDDI have display and center pushbutton switch on bottom row is labeled MENU.</p> <p>2. LDDI has caution and advisory display.</p> <p>Menu display appears on RDDI.</p> <p>BIT control display appears on RDDI.</p>	<p>1. No display on LDDI, F/A-18A, do table 1 (A1-F18AC-745-200, WP006 00). F/A-18B, do table 1 (A1-F18AC-745-200, WP007 00).</p> <p>2. No display on RDDI, F/A-18A, do table 2 (A1-F18AC-745-200, WP006 00), F/A-18B, do table 2 (A1-F18AC-745-200, WP007 00).</p> <p>3. If STANDBY is displayed on F/A-18A, do table 2 (A1-F18AC-745-200, WP004 00). On F/A-18B, do table 2 (A1-F18AC-745-200, WP005 00).</p> <p>4. If BRT or CONT controls do not affect display, replace left or right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace left Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p>

**Table 1. Electrical Boresight Compensation System Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
<p>c. On RDDI, press MI pushbutton switch.</p> <p>d. On equipment control, press option 1 select switch and adjust BRT control for best display.</p>	<p>1. Changes below appear on RDDI display:</p> <p>a. RDDI BIT control display changes to memory inspect display.</p> <p>b. Increment arrow, decrement arrow, ADDR, and DATA appear on RDDI memory inspect display.</p> <p>2. Electronic Equipment Control C-10380/ASQ (equipment control) displays options listed below.</p> <p>a. UNIT appears in option 1 display.</p> <p>b. ADDR appears in option 2 display.</p> <p>Option 1 select colon (:) appears on left side of option 1 display.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>See Electronic Equipment Control C-10380/ASQ Lamp and Switch Test (A1-F18AC-741-200, WP004 00).</p> <p>Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p style="text-align: center;">If an error occurs while pressing keyboard switches, press keyboard CLR switch and repeat step.</p>		
e. Press keyboard 2 and 8 switches.	28 is displayed on equipment control scratch pad display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
f. Press keyboard ENT switch.	28 (unit address) is displayed between ADDR and DATA on RDDI memory inspect display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
g. Press option 2 select switch.	Option 2 select colon(:) appears on left side of option 2 display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).
h. Using keyboard switches, enter address for ref code PBSTDφ (table 3, WP010 19).	Address for ref code PBSTDφ is displayed on equipment control scratch pad display.	Replace Electronic Equipment Control C-10380/ASQ (A1-F18AC-741-300, WP006 00).

**Table 1. Electrical Boresight Compensation System Test (Continued)**

Procedure	Normal Indication	Remedy for Abnormal Indication
i. Press keyboard ENT switch.	<p>1. Address for ref code PBSTD<math>\phi</math> is displayed under ADDR on RDDI memory inspect display.</p> <p>2. Bureau number word 1 data readout is displayed under DATA. This readout represents the last three digits of the bureau number. Use fig. 1 to convert the value listed under DATA to these digits.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Do table 8 (WP041 00).</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>Pressing the address increment pushbutton increases the memory access address by 1. Pressing the address decrement pushbutton decreases the memory access address by 1. If memory inspecting changing data, pressing the FRZ pushbutton switch will stop octal data readout at that point. Pressing FRZ pushbutton switch again will allow the data to resume.</p>		
j. On RDDI, press increment pushbutton switch.	<p>1. Address for ref code PBSTD1 (table 3, WP010 19), is displayed under ADDR.</p> <p>2. Bureau number word 2 data readout is displayed under DATA. This readout represents the second and third digits of the bureau number. Use fig. 1 to convert the value listed under DATA to these digits.</p>	<p>Replace right Digital Display Indicator IP-1317( ) (A1-F18AC-745-300, WP004 00).</p> <p>Do table 1 (WP041 00).</p>
k. Using keyboard switches, memory inspect addresses for ref codes below for HUD boresight (table 3, WP010 19).	Use table 2 to convert the value displayed under DATA to recorded switch setting.	
(1) PHUYAW - YAW		Do table 2 (WP041 00).
(2) PHR $\phi$ LL - ROLL		Do table 3 (WP041 00).
(3) PHPTCH - PITCH		Do table 4 (WP041 00).
l. Using keyboard switches, memory inspect addresses for ref codes below for FLIR boresight (table 3, WP010 19).	Use table 2 to convert the value displayed under DATA to recorded switch setting.	

**Table 1. Electrical Boresight Compensation System Test (Continued)**

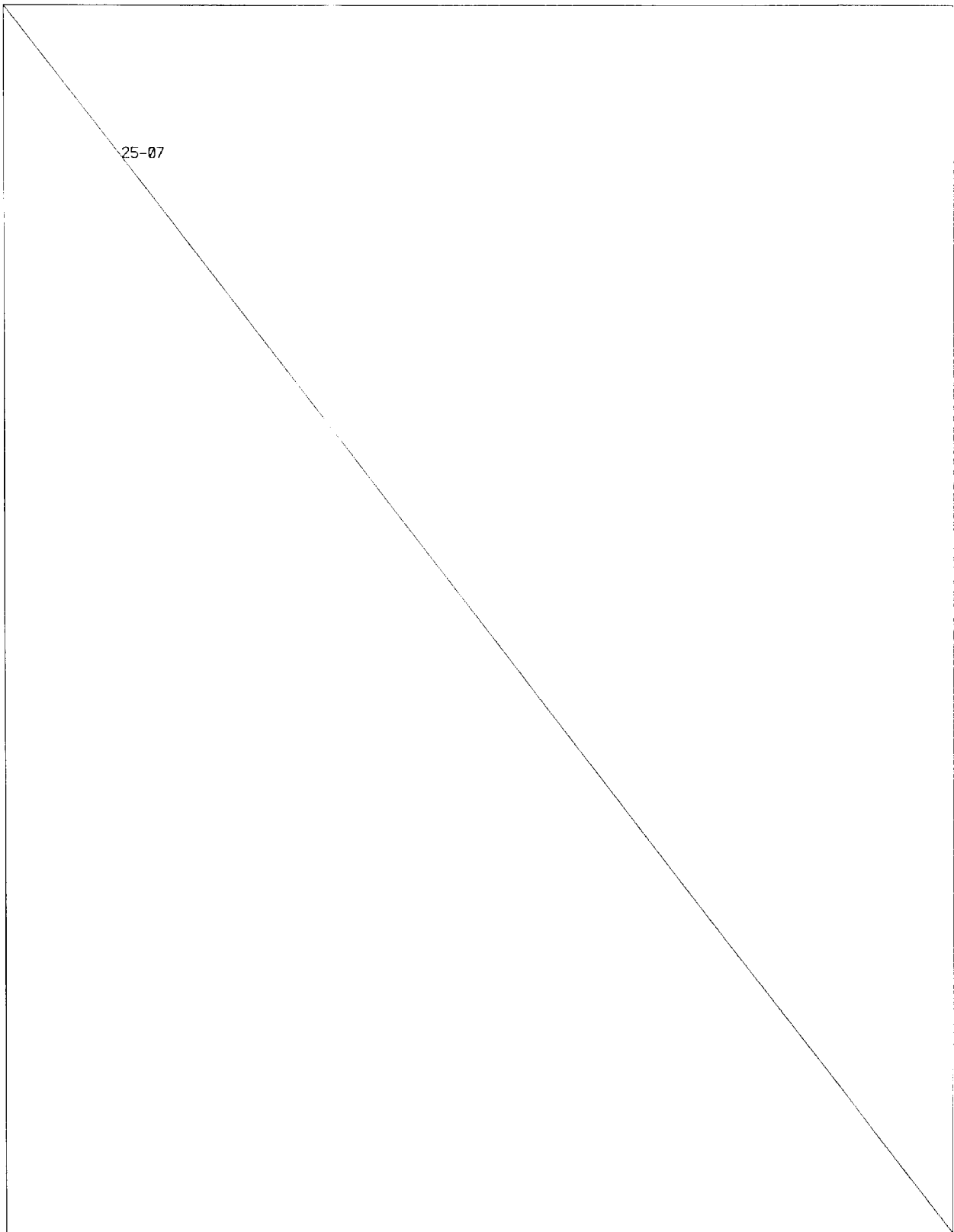
Procedure	Normal Indication	Remedy for Abnormal Indication
<p>(1) PFLYAW - YAW</p> <p>(2) PFR<math>\phi</math>LL - ROLL</p> <p>(3) PFPTCH - PITCH</p> <p>m. Using keyboard switches, memory inspect address for ref codes below for GUN and MC boresight (table 3, WP010 19).</p> <p>(1) PGNYAW - YAW</p> <p>(2) PGROLL - MC boresight</p> <p>(3) PGPTCH - PITCH</p> <p>n. Using keyboard switches, memory inspect ref codes below for RADAR boresight (table 3, corded switch setting. WP010 19).</p> <p>(1) PRDYAW - YAW</p> <p>(2) PRR<math>\phi</math>LL - ROLL</p> <p>(3) PRPTCH - PITCH</p> <p>3. TURN OFF PROCEDURE.</p> <p>a. On LDDI and RDDI, set power switch to OFF.</p> <p>b. Remove electrical power (A1-F18AC-LMM-000).</p>	<p>Use table 2 to convert the value displayed under DATA to recorded switch setting.</p> <p>Use table 2 to convert the value displayed under DATA to recorded switch setting.</p>	<p>Do table 5 (WP041 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p> <p>Do table 6 (WP041 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p> <p>Do table 9 (WP041 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p> <p>Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00).</p>

**Table 1. Electrical Boresight Compensation System Test (Continued)**

<b>Procedure</b>	<b>Normal Indication</b>	<b>Remedy for Abnormal Indication</b>
c. If removed, install Receiver-Transmitter, RT-1250( )/ARC No. 2 (76A-F002) (A1-F18AC-600-300, WP003 00).		

**Table 2. Boresight Conversion**

<b>Positive Switch Settings</b>	<b>Right Digital Display Indicator IP-1317( ) DATA Readings</b>	<b>Negative Switch Settings</b>	<b>Right Digital Display Indicator IP-1317( ) DATA Readings</b>
0	000000	0	000000
.5	000020	.5	177760
1.0	000040	1.0	177740
1.5	000060	1.5	177720
2.0	000100	2.0	177700
2.5	000120	2.5	177660
3.0	000140	3.0	177640
3.5	000160	3.5	177620
4.0	000200	4.0	177600
4.5	000220	4.5	177560
5.0	000240	5.0	177540
5.5	000260	5.5	177520
6.0	000300	6.0	177500
6.5	000320	6.5	177460
7.0	000340	7.0	177440
7.5	000360	7.5	177420



**Figure 1. Serial Number Data Readout Example**

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**ORGANIZATIONAL MAINTENANCE**  
**TESTING AND TROUBLESHOOTING**  
**TROUBLESHOOTING**  
**ELECTRICAL BORESIGHT COMPENSATION SYSTEM**

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**Reference Material**

Line Maintenance Procedures .....	A1-F18AC-LMM-000
Line Maintenance Access Doors .....	A1-F18AC-LMM-010
Weapon Control Systems .....	A1-F18AC-740-200
Electrical Boresight Compensation System Locator .....	WP038 00


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**Record of Applicable Technical Directives**

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA-F/A-18-0560R1)	1 Feb 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP-MDA- F/A-18-0583)	1 Feb 01	-

Table 1. Wrong Aircraft Bureau Number Data Readout, Thousands/ Ten-Thousands



Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Electrical Boresight Compensation System Schematic (A1-F18AC-740-500, WP078 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP038 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Electrical Boresight Compensation Assembly Signal Data Recorder RO-508/ASM-612		
Procedure	No	Yes
<div style="text-align: center;"></div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"><li>1. Pin to pin test per procedural step.</li><li>2. Shorts to ground.</li><li>3. Shorts between surrounding pins on connectors.</li><li>4. Shorts between shield and conductors.</li><li>5. Shield continuity.</li></ol> <p>a. Do substeps listed below:</p> <div style="display: flex; justify-content: space-between;"><div><p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p><p>(2) Open door 13R (A1-F18AC-LMM-010).</p></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div><div style="border-left: 1px solid black; height: 100px; width: 100px;"></div></div>		



**Table 1. Wrong Aircraft Bureau Number Data Readout, Thousands/ Ten-Thousands  
(Continued)**

Procedure	No	Yes
(3) Remove Control-Converter C-10382/A in door 13R (A1-F18AC-741-300, WP005 00). Is BUNO switch setting on electrical boresight compensation assembly the same as last five numbers of aircraft bureau number? .....	b	c
b. Set switches to last five numbers of aircraft bureau number, repeat test in WP040 00, and do step f .....	-	-
c. Do substeps listed below:		
(1) Remove VHF/UHF Receiver-Transmitter ( <input type="checkbox"/> 1 76A-F002 or <input type="checkbox"/> 2 76A-F042) (A1-F18AC-600-300, WP003 00).		
(2) Disconnect 85P-F007 from electrical boresight compensation assembly.		
(3) Open door 14R (A1-F18AC-LMM-010).		
(4) Disconnect 85P-F001A from Signal Data Recorder RO-508/ASM-612.		
(5) Does continuity exist from:		
85P-F007 pin 34 to 85P-F001A pin 90		
85P-F007 pin 18 to 85P-F001A pin 36		
85P-F007 pin 19 to 85P-F001A pin 37		
85P-F007 pin 20 to 85P-F001A pin 38		
85P-F007 pin 21 to 85P-F001A pin 39		
85P-F007 pin 23 to 85P-F001A pin 43		
85P-F007 pin 24 to 85P-F001A pin 44		
85P-F007 pin 25 to 85P-F001A pin 45		
85P-F007 pin 26 to 85P-F001A pin 46		
85P-F007 pin 29 to 85P-F001A pin 48		
85P-F007 pin 30 to 85P-F001A pin 49		
85P-F007 pin 31 to 85P-F001A pin 50		
85P-F007 pin 32 to 85P-F001A pin 51? .....	d	e
d. Isolate defective wiring (A1-F18A( )-WDM-000) and do step f .....	-	-
e. Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00). If malfunction still exists, replace Signal Data Recorder RO-508/ASM-612 (A1-F18AC-580-300, WP004 00) and do step f .....	-	-
f. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) Control-Converter C-10382/A		
(2) VHF/UHF Receiver-Transmitter No. 2		
(3) 85P-F001A		

**Table 1. Wrong Aircraft Bureau Number Data Readout, Thousands/ Ten-Thousands  
(Continued)**

Procedure	No	Yes
(4) 85P-F007		
(5) Doors 13R and 14R .....	-	-
<b>LEGEND</b>   On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.   On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		



**Table 2. Wrong HUD Yaw Boresight Data**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Electrical Boresight Compensation System Schematic (A1-F18AC-740-500, WP078 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP038 00.		
Malfunction is caused by one of the items listed below		
Aircraft Wiring Electrical Boresight Compensation Assembly Signal Data Recorder RO-508/ASM-612		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

Table 2. Wrong HUD Yaw Boresight Data (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</li> <li>(2) Open doors 13R and 14R (A1-F18AC-LMM-010).</li> <li>(3) Remove VHF/UHF Receiver-Transmitter (<input type="checkbox"/> 1 76A-F002 or <input type="checkbox"/> 2 76A-F042) (A1-F18AC-600-300, WP003 00).</li> <li>(4) Disconnect 85P-F007 from electrical boresight compensation assembly.</li> <li>(5) Disconnect 85P-F001A from Signal Data Recorder RO-508/ASM-612.</li> <li>(6) Does continuity exist from: <ol style="list-style-type: none"> <li>85P-F007 pin 35 to 85P-F001A pin 91</li> <li>85P-F007 pin 27 to 85P-F001A pin 47? .....</li> </ol> </li> </ol>		
b. Isolate defective wiring (A1-F18A( )-WDM-000) and do step d .....	-	-
c. Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00). If malfunction still exists, replace Signal Data Recorder RO-508/ASM-612 (A1-F18AC-580-300, WP004 00) and do step d .....	-	-
d. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
<ol style="list-style-type: none"> <li>(1) VHF/UHF Receiver-Transmitter No. 2</li> <li>(2) 85P-F001A</li> <li>(3) 85P-F007</li> </ol>		

**Table 2. Wrong HUD Yaw Boresight Data (Continued)**

Procedure	No	Yes
(4) Doors 13R and 14R .....	-	-
<b>LEGEND</b>   On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.   On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 3. Wrong HUD Roll Boresight Data**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Electrical Boresight Compensation System Schematic (A1-F18AC-740-500, WP078 00) may be used as an aid when doing this procedure.		
For component location, refer to WP038 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Electrical Boresight Compensation Assembly Signal Data Recorder RO-508/ASM-612		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

**Table 3. Wrong HUD Roll Boresight Data (Continued)**

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) Open doors 13R and 14R (A1-F18AC-LMM-010).</p> <p>(3) Remove VHF/UHF Receiver-Transmitter (<input type="checkbox"/> 1 76A-F002 or <input type="checkbox"/> 2 76A-F042) (A1-F18AC-600-300, WP003 00).</p> <p>(4) Disconnect 85P-F007 from electrical boresight compensation assembly.</p> <p>(5) Disconnect 85P-F001A from Signal Data Recorder RO-508/ASM-612.</p> <p>(6) Does continuity exist from 85P-F007 pin 22 to 85P-F001A pin 40? .....</p>	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step d .....	-	-
c. Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00). If malfunction still exists, replace Signal Data Recorder RO-508/ASM-612 (A1-F18AC-580-300, WP004 00) and do step d .....	-	-
<p>d. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:</p> <p>(1) VHF/UHF Receiver-Transmitter No. 2</p> <p>(2) 85P-F001A</p> <p>(3) 85P-F007</p> <p>(4) Doors 13R and 14R .....</p>		
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 4. Wrong HUD Pitch Boresight Data


Support Equipment Required				
Part Number or Type Designation	Nomenclature			
77/BN	Multimeter			
Materials Required				
None				
NOTE				
Electrical Boresight Compensation System Schematic (A1-F18AC-740-500, WP078 00) may be used as an aid when doing this procedure.				
For component location, refer to WP038 00.				
Malfunction is caused by one of the items listed below:				
Aircraft Wiring Electrical Boresight Compensation Assembly Signal Data Recorder RO-508/ASM-612				
Procedure	No	Yes		
<div style="text-align: center;">  </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <div style="text-align: center;"> <b>NOTE</b> </div> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> <p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</li> <li>(2) Open doors 13R and 14R (A1-F18AC-LMM-010).</li> </ol>				


Table 4. Wrong HUD Pitch Boresight Data (Continued)

Procedure	No	Yes
(3) Remove VHF/UHF Receiver-Transmitter ( <input type="checkbox"/> 1 76A-F002 or <input type="checkbox"/> 2 76A-F042) (A1-F18AC-600-300, WP003 00).		
(4) Disconnect 85P-F007 from electrical boresight compensation assembly.		
(5) Disconnect 85P-F001A from Signal Data Recorder RO-508/ASM-612.		
(6) Does continuity exist from 85P-F007 pin 17 to 85P-F001A pin 35? .....	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step d .....	-	-
c. Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00). If malfunction still exists, replace Signal Data Recorder RO-508/ASM-612 (A1-F18AC-580-300, WP004 00) and do step d .....	-	-
d. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) VHF/UHF Receiver-Transmitter No. 2		
(2) 85P-F001A		
(3) 85P-F007		
(4) Doors 13R and 14R .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 5. Wrong FLIR YAW Boresight Data



Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Electrical Boresight Compensation System Schematic (A1-F18AC-740-500, WP078 00) may be used as an aid when doing this procedure.	

**Table 5. Wrong FLIR YAW Boresight Data**

For component location, refer to WP038 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Electrical Boresight Compensation Assembly Signal Data Recorder RO-508/ASM-612		
Procedure	No	Yes
<div style="text-align: center;">  <p><b>CAUTION</b></p> </div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) Open doors 13R and 14R (A1-F18AC-LMM-010).		
(3) Remove VHF/UHF Receiver-Transmitter ( <input type="checkbox"/> 1 76A-F002 or <input type="checkbox"/> 2 76A-F042) (A1-F18AC-600-300, WP003 00).		
(4) Disconnect 85P-F007 from electrical boresight compensation assembly.		
(6) Disconnect 85P-F001A from Signal Data Recorder RO-508/ASM-612,		
(6) Does continuity exist from 85P-F007 pin 36 to 85P-F001A pin 92? .....	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000)and do step d .....	-	-
c. Replace Electrical Boresight Compensation Assembly (85A-F007) (A1-F18AC-740-300, WP038 00). If malfunction still exists, replace Signal Data Recorder RO-508/ASM-612 (A1-F18AC-580-300, WP004 00) and do step d .....	-	-
d. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		



**Table 5. Wrong FLIR YAW Boresight Data**

Procedure	No	Yes
(1) VHF/UHF Receiver-Transmitter No. 2		
(2) 85P-F001A		
(3) 85P-F007		
(4) Doors 13R and 14R .....	-	-
<b>LEGEND</b>   On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.  On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 6. Wrong GUN YAW Boresight Data**

Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
Materials Required		
None		
NOTE		
Electrical Boresight Compensation System Schematic (A1-F18AC-740-500, WP078 00) may be used as an aid when doing this procedure.		
Component locations are shown in WP038 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Electrical Boresight Compensation Assembly Signal Data Recorder RO-508/ASM-612		
Procedure	No	Yes
<div>CAUTION</div> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		

Table 6. Wrong GUN YAW Boresight Data (Continued)

Procedure	No	Yes
<p style="text-align: center;"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <p>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</p> <p>(2) Open doors 13R and 14R (A1-F18AC-LMM-010).</p> <p>(3) Remove VHF/UHF Receiver-Transmitter (<input type="checkbox"/> 1 76A-F002 or <input type="checkbox"/> 2 76A-F042) (A1-F18AC-600-300, WP003 00).</p> <p>(4) Disconnect 85P-F007 from electrical boresight compensation assembly.</p> <p>(5) Disconnect 85P-F001A from Signal Data Recorder RO-508/ASM-612.</p> <p>(6) Does continuity exist from 85P-F007 pin 37 to 85P-F001A pin 93? .....</p>	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000)and do step d .....	-	-
c. Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00). If malfunction still exists, replace Signal Data Recorder RO-508/ASM-612 (A1-F18AC-580-300, WP004 00) and do step d .....	-	-
<p>d. If disconnected, removed, or opened during this procedure, make sure, items listed below are connected installed, or closed:</p> <p>(1) VHF/UHF Receiver-Transmitter No. 2</p> <p>(2) 85P-F001A</p> <p>(3) 85P-F007</p> <p>(4) Doors 13R and 14R .....</p>	-	-
<p style="text-align: center;"><b>LEGEND</b></p> <p><input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.</p> <p><input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.</p>		

Table 7. Wrong LST Or RADAR YAW Boresight Data


Support Equipment Required		
Part Number or Type Designation	Nomenclature	
77/BN	Multimeter	
<b>Materials Required</b>		
None		
<b>NOTE</b>		
Electrical Boresight Compensation System Schematic (A1-F18AC-740-500, WP078 00) may be used as an aid when doing this procedure.		
For component location, refer to WP038 00.		
Malfunction is caused by one of the items listed below:		
Aircraft Wiring Electrical Boresight Compensation Assembly Signal Data Recorder RO-508/ASM-612		
<b>Procedure</b>	<b>No</b>	<b>Yes</b>
		
<p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p>		
<b>NOTE</b>		
<p>The question used in logic tree “Does continuity exist” means to test for the items listed below</p>		
<ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
<p>a. Do substeps listed below:</p> <ol style="list-style-type: none"> <li>(1) Make sure electrical power is off (A1-F18AC-LMM-000).</li> <li>(2) Open doors 13R and 14R (A1-F18AC-LMM-010).</li> </ol>		

Table 7. Wrong LST Or RADAR YAW Boresight Data (Continued)

Procedure	No	Yes
(3) Remove VHF/UHF Receiver-Transmitter ( <input type="checkbox"/> 1 76A-F002 or <input type="checkbox"/> 2 76A-F042) (A1-F18AC-600-300, WP003 00).		
(4) Disconnect 85P-F007 from electrical boresight compensation assembly.		
(5) Disconnect 85P-F001A from Signal Data Recorder RO-508/ASM-612.		
(6) Does continuity exist from 85P-F007 pin 28 to 85P-F001A pin 94? .....	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step d .....	-	-
c. Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00). If malfunction still exists, replace Signal Data Recorder RO-508/ASM-612 (A1-F18AC-580-300, WP004 00) and do step d .....	-	-
d. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) VHF/UHF Receiver-Transmitter No. 2		
(2) 85P-F001A		
(3) 85P-F007		
(4) Doors 13R and 14R .....	-	-
<b>LEGEND</b>		
<input type="checkbox"/> 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<input type="checkbox"/> 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

Table 8. Wrong Aircraft Bureau Number Data Readout, Units/ Tens/ Hundreds

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	

**Table 8. Wrong Aircraft Bureau Number Data Readout,  
Units/ Tens/ Hundreds (Continued)**

NOTE		
<p>Electrical Boresight Compensation System Schematic (A1-F18AC-740-500, WP078 00) may be used as an aid when doing this procedure.</p> <p>For component location, refer to WP038 00.</p> <p>Malfunction is caused by one of the items listed below.</p> <p>Aircraft Wiring Electrical Boresight Compensation Assembly Signal Data Recorder RO-508/ASM-612</p>		
Procedure	No	Yes
<p align="center"><b>CAUTION</b></p> <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p align="center"><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist?” means to test for the items listed below</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol>		
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) Open doors 13R and 14R (A1-F18AC-LMM-010).		
(3) Remove VHF/UHF Receiver-Transmitter ( <input type="checkbox"/> 1 76A-F002 or <input type="checkbox"/> 2 76A-F042) (A1-F18AC-600-300, WP003 00).		
(4) Disconnect 85P-F007 from electrical boresight compensation assembly.		
(5) Disconnect 85P-F001A from Signal Data Recorder RO-508/ASM-612.		
(6) Does continuity exist from 85P-F007 pin 33 to 85P-F001A pin 89? .....	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step d .....	-	-

**Table 8. Wrong Aircraft Bureau Number Data Readout,  
Units/ Tens/ Hundreds (Continued)**

Procedure	No	Yes
c. Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00). If malfunction still exists, replace Signal Data Recorder RO-508/ASM-612 (A1-F18AC-580-300, WP004 00) and do step d .....	-	-
d. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) VHF/UHF Receiver-Transmitter No. 2		
(2) 85P-F001A		
(3) 85P-F007		
(4) Doors 13R and 14R .....	-	-
<b>LEGEND</b>		
<div>1</div> On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
<div>2</div> On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		

**Table 9. Wrong RADAR YAW Boresight Data**

Support Equipment Required	
Part Number or Type Designation	Nomenclature
77/BN	Multimeter
Materials Required	
None	
NOTE	
Electrical Boresight Compensation System Schematic (A1-F18AC-740-500, WP078 00) may be used as an aid when doing this procedure.	
For component location, refer to WP038 00.	
Malfunction is caused by one of the items listed below:	
Aircraft Wiring	
Electrical Boresight Compensation Assembly	
Signal Data Recorder RO-508/ASM-612	

Table 9. Wrong RADAR YAW Boresight Data (Continued)




Procedure	No	Yes
<div style="text-align: center;">  <p>To prevent damage to low level devices (switches/relay contacts), do not test for continuity with multimeter on the RX 1 scale. Pin to pin tests that do not go through switches/relay contacts may use the RX 1 scale.</p> <p><b>NOTE</b></p> <p>The question used in logic tree “Does continuity exist” means to test for the items listed below:</p> <ol style="list-style-type: none"> <li>1. Pin to pin test per procedural step.</li> <li>2. Shorts to ground.</li> <li>3. Shorts between surrounding pins on connectors.</li> <li>4. Shorts between shield and conductors.</li> <li>5. Shield continuity.</li> </ol> </div>		
a. Do substeps listed below:		
(1) Make sure electrical power is off (A1-F18AC-LMM-000).		
(2) Open doors 13R and 14R (A1-F18AC-LMM-010).		
(3) Remove VHF/UHF Receiver-Transmitter ( <input type="checkbox"/> 1 76A-F002 or <input type="checkbox"/> 2 76A-F042) (A1-F18AC-600-300, WP003 00).		
(4) Disconnect 85P-F007 from electrical boresight compensation assembly.		
(5) Disconnect 85P-F001A from Signal Data Recorder RO-508/ASM-612.		
(6) Does continuity exist from 85P-F007 pin 15 to 85P-F001A pin 95? .....	b	c
b. Isolate defective aircraft wiring (A1-F18A( )-WDM-000) and do step d .....	-	-
c. Replace Electrical Boresight Compensation Assembly (A1-F18AC-740-300, WP038 00). If malfunction still exists, replace Signal Data Recorder RO-508/ASM-612 (A1-F18AC-580-300, WP004 00) and do step d .....	-	-
d. If disconnected, removed, or opened during this procedure, make sure items listed below are connected, installed, or closed:		
(1) VHF/UHF Receiver-Transmitter No. 2		
(2) 85P-F001A		

Table 9. Wrong RADAR YAW Boresight Data (Continued)

Procedure	No	Yes
(3) 85P-F007		
(4) Doors 13R and 14R .....	-	-
<b>LEGEND</b>		
 1 On F/A-18A before F/A-18 AFC 253 or F/A-18 AFC 292 and F/A-18B.		
 2 On F/A-18A 162394 thru 163175 after F/A-18 AFC 253 or F/A-18 AFC 292.		